

**TREATMENT, STORAGE AND DISPOSAL  
INSPECTION REPORT**

**For**



**Prepared By The  
UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF SOLID AND HAZARDOUS WASTE  
FEDERAL AND COMMERCIAL FACILITIES SECTION  
September 27-30, 2010**

**EnergySolutions LLC**  
**Mixed Waste Facility**  
**Division of Solid and Hazardous Waste**  
**Inspection Report**

Date of Inspection	September 27-30, 2010
Time In	0900, 1035, 0835, 1000
Time Out	1520, 1515, 1515, 1130
Type of Inspection	Annual Hazardous Waste Inspection
FACILITY INFO	
Facility Contact / Phone No	Jesse Garcia, Mixed Waste Manager, (801) 649-2000
Regulatory Status	Permitted TSDF, Permit Re-issued April 4, 2003
Participants	Otis Willoughby, DSHW C/FF Section Boyd Swenson, DSHW C/FF Section (Sept 21 only) Jesse Garcia, ES Mixed Waste Manager Curtis Kirk, ES QA Officer Allan Erichsen, ES Laboratory Manager Marcy Wicks, ES QA Inspector Tim Orton, ES Environmental Engineer Gwen McDonald, ES QA Coordinator Sean McCandless, ES Director of Compliance and Permitting Jeff Gardner, ES VP Clive Site
Prepared By	Otis Willoughby

## ATTACHMENTS

Attachment 1	Notice of Inspection (NOI)
Attachment 2	Permit Table of Context
Attachment 3	Site Map
Attachment 4	Site Organization Chart and Personnel Training Review Documentation
Attachment 5	Letters Outlining Arrangements with Local Agencies
Attachment 6	Incoming Waste Profile, Manifest, Storage, Treatment and Disposal Review
Attachment 7	Fire Equipment Inspections, Condition Reports
Attachment 8	Facility Inspection Checklists
Attachment 9	Self-Reported Non-Compliance Issues
Attachment 10	Air Dispersion Sampling
Attachment 11	Photographs
Attachment 12	Participant List

## Facility Description

EnergySolutions LLC owns and operates a commercial mixed waste treatment, storage, and disposal facility (TSDF) located approximately 75 miles west of Salt Lake City, Utah and 2.5 miles south of the Clive exit on Interstate 80 in Tooele County, Utah. It is found

on the USGS 7 5' Quadrangle map, Aragonite, Utah, T1S, R11W, Section 32 The Mixed Waste Facility itself is located in the southeast corner of the section Also located on Section 32 are EnergySolutions' low activity radioactive waste embankment (LARW), 11e (2) waste embankment and the Vitro Tailings Embankment which is under the jurisdiction of the United States Department of Energy

In this report, all of EnergySolutions' operations within Section 32 will be referred to as "the site", whereas the mixed waste activities are referred to as "the facility" Waste is managed within the following units at the facility Mixed Waste Landfill Cell, Mixed Waste Operations Building, Mixed Waste Storage Building, Mixed Waste Treatment Building, four Mixed Waste Outdoor Storage Pads and six Evaporation Tanks The Mixed Waste Landfill Cell is undergoing an expansion at this time The active Mixed Waste Landfill Cell meets the minimum technical requirements for a hazardous waste disposal cell as defined in the Rules R315-8-14 2

Groundwater detection monitoring is in place for the active Mixed Waste Landfill Cell This system has been reviewed during the spring and fall sampling events New wells have been drilled along the east side of the Mixed Waste Disposal Cell These wells are being sampled for the first four quarterly sampling events Following the four quarterly events, the wells will be added to the official system via a permit modification request These wells are necessary to replace wells that will be in the way of the final cover system for the cell



## INBRIEFING

The inspector arrived at the EnergySolutions Clive Site at 0930 on September 27, 2010. The DSHW inspector presented his credentials to the EnergySolutions employees assembled in a conference room in the Administration Building and explained that he was there to conduct the 2010 Annual Hazardous Waste Inspection. It was explained that the inspectors would evaluate the facility's compliance with the full scope of the permit during the four-day inspection. See Attachment 2.

## INSPECTION NARRATIVE

### SEPTEMBER 27, 2010

Upon arrival at the site, the inspector met with facility representatives. The inspector provided credentials and outlined the scope of the inspection.

The facility is required to make contact with local emergency authorities on a semi-annual basis. The inspector reviewed letters documenting that this requirement has been completed. See Attachment 5.

The inspector began reviewing waste receipt documentation.

### SEPTEMBER 28, 2010

The inspectors entered the Mixed Waste Facility to conduct an inspection inside the controlled area. Waste was stored in the Mixed Waste Operations Building and on the East and South storage pads. All aisle spacing met the permit requirements. The inspectors noted certain waste containers and then tracked their location using the Facility's computer waste tracking system. All containers were properly accounted for.

The inspectors looked at the Mixed Waste Treatment Building and the VTD Unit in the Mixed Waste Storage Building.

The final field inspection was a walk-through of the Mixed Waste Disposal Cell. The southern portion of the cell is covered with a temporary cap and is no longer receiving waste. Sump areas 8A, 8B, 9A and 9B are currently receiving waste. The majority of the waste being disposed is debris in macro vaults.

Mr. Swenson reviewed the training documentation for select EnergySolutions employees. See Attachment 4. His report is as follows. A current copy of the Mixed Waste Operations org chart had previously been requested and from the org chart, eight individuals were identified and their training records were requested. A copy of the org chart provided is attached. The individuals whose training records were requested included Tyson Lemmon, Brian Beynon, Robert Van Reenen, Kevin Riddle, Kenneth Thompson, Cameron Rubio, Beau Leyva, and Jeffrey Medrano. After review of the requested training records began, it became apparent that Energy Solutions periodically

prints out an Employee Training Record which is a summary list of all of the training that an employee has had and places it in the training records. A current Employee Training Record was requested for each of the eight employees being reviewed. Copies of the Employee Training Records are attached.

Tim Orton indicated that the required annual refresher training is accomplished with course 12000 which is identified as 24 or 40 hour Hazwoper on the individual Employee Training Record and documented in the training file with an 8-hour Hazwoper Refresher certificate of completion. A copy of the training outline for the Hazwoper Refresher was requested. Copies of the training outlines for the Hazwoper Refresher, Asbestos Awareness Exam and Key, and Radiation Worker Safety Refresher were provided and are attached.

Brian Beynon's training records were reviewed. He appears to have been hired in November 2003. Initial training was provided as required by the permit. Latest annual refresher training completed in June 2010. New/Transfer Employee Safety OJT also completed in June 2010.

Robert Van Reenen appeared to have terminated employment with the company in September 2005 and was rehired November 2009. Initial required training appears to have been completed as required by the permit. Annual refresher due in November 2010. However, his training file indicated that he had completed a New/Transfer Employee Safety OJT in June 2010 that was not included on his Employee Training Record.

The 2010 annual response training drill occurred on September 17, 2010. A copy of the Notification Report, Training Outline, Attendance Roster, and follow-up memo summarizing the event and evaluating performance were provided and are attached. Of the eight employees' whose training records were requested, three were on the training drill roster. These included Brian Beynon, Robert Van Reenen, and Tyson Lemmon.

SEPTEMBER 29, 2010

EnergySolutions scans all documents and makes them available through their OnBase computer system. On this system, wastes were tracked from receipt to disposal.

Also on the OnBase system are all inspection reports for the facility. The inspector reviewed reports for select Daily, Weekly, Monthly and Annual inspections. See Attachment 8.

Training review continued. Continued reviewing employee training records by checking for the required training on the Employee Training Record and confirming the training with evidence in the employee's training file.

Kevin Riddle was hired in January 2005. All initial training appears to have been completed as required by the permit. Latest annual refresher training was completed in December 2009.

Kenneth Thompson was hired in November 2009 Initial training appears to have been completed as required by the permit Annual refresher not yet completed as it is not due until November 2010

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Rubio Cameron was hired in June 2010 Initial training appears to have been completed as required by the permit Annual refresher not yet completed as it is not due until June 2011

Beau Leyva was also hired in June 2010 Initial training appears to have been completed as required by the permit Annual refresher not yet completed as it is not due until June 2011

Jeffrey Medrano appears to have been hired initially in June 2006 and then terminated employment in June 2007 and rehired in August 2008 Initial training appears to have been completed as required by the permit Latest annual refresher completed in August 2010

Tyson Lemmon was hired in July 1998 Initial training appears to have been completed as required by the permit Last annual refresher was completed in October 2009 The next annual refresher is due October 2010

Dates of incidents in the past year where the contingency plan was implemented had been previously requested. A copy of the log of incidents is attached. The files for incident numbers CL-CR10-082, CL-CR10-083, CR10-016, CR10-024, and CR10-054 were reviewed. Files for incidents CL-CR10-083, CR10-016, and CR10-024 did not have an initial report of the incident to the Executive Secretary. EnergySolutions was able to provide copies of the contingency plan implementation report to the Executive Secretary in each of the three incidents noted.

SEPTEMBER 30, 2010

The inspector spent the morning reviewing several waste tracking documents. All were in order.

#### SELF REPORTED NON-COMPLIANCE

The facility has made four notifications of self reported non-compliance over the past year.

The first notification occurred on May 17, 2010. EnergySolutions notified the Executive Secretary that they had not met the treatment formula for Waste Stream 9080-01. The facility failed to use the proper amount of reagent. This notification documents noncompliance with Condition V 5 of Attachment II-1-3, *Waste Stabilization Plan*. See Attachment 9.

The second notification occurred on June 7, 2010, when the facility informed the Executive Secretary of a drum of untreated waste that was disposed in the MWLC. This waste required treatment by thermal desorption but was inadvertently placed in the disposal cell without treatment. On June 9, the facility recovered the drum from the cell. Attachment 9 includes documentation regarding the notification, recovery and treatment of the subject waste. This notification documents noncompliance with Condition V E 5 of Module V, *Disposal in Landfills*.

The third notification was made on September 9, 2010. This notification describes that leachate was detected in the middle and lower pipes of the leak detection system for Sump 3A of the Mixed Waste Disposal Cell. See Attachment 9.

The fourth notification made on September 10, 2010, documents that manifest discrepancies for PCB shipments were not made within 15 days as required under Condition 71 ix of Attachment II-1-10, *Management of Wastes Containing Polychlorinated Biphenyls (PCBs) at the Mixed Waste Facility*. See Attachment 9.

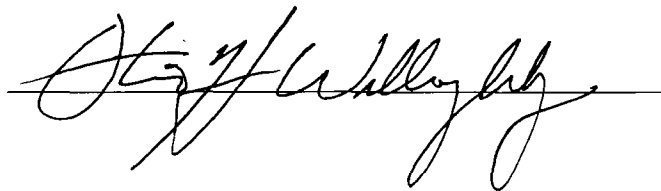
#### WIND DISPERSAL

On August 25, 2010, the inspector participated in sampling of sites to meet the requirements of Attachment II-1-10, *Plan for Controlling Wind Dispersal*. The inspector took split samples at four sites. Facility and agency results are found in Attachment 9.

## CLOSE-OUT MEETING

A close-out meeting was held between the Inspector and EnergySolutions' staff. A Notice of Inspection was presented which outlined the Permit sections that were covered during this annual inspection. No issues were found. See Attachment 1.

Photographs generated during this inspection are found in Attachment 10.

A handwritten signature in cursive script, appearing to read "Jeff Wally", written over a horizontal line.

13 DEC 2010



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UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF SOLID AND HAZARDOUS WASTE  
288 NORTH 1460 WEST  
P O BOX 144880  
SALT LAKE CITY, UT 84114-4880  
(801) 538-6170



### NOTICE OF INSPECTION

Facility Name <b>ENERGY SOLUTIONS</b>	Facility Phone # <b>801-649-2000</b>
Facility Address <b>CLIVE, UT</b>	Date of Inspection <b>27 SEPT 2010</b>

#### OBSERVATIONS AND CONCERNS

Observations were made regarding Energy Solutions adherence to its state-issued Part B Permit. A review of waste management, site security, personnel training and contingency plan implementation was conducted. Other portions of the permit have been reviewed during the course of the year. These include financial assurance, groundwater monitoring, wind dispersal and CQAWL reviews. No issues of regulatory concern were observed during this inspection.

Note: Items listed above are preliminary findings only. The State may take enforcement action regarding any items listed above. The State is not precluded from taking enforcement action for items which may not be listed.

Inspector Signature 	Date Signed <b>30 SEPT 10</b>	Recipient Signature 	Date Signed <b>9/30/10</b>
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WHITE - Facility

YELLOW - Inspection Report

GREEN - Inspector

BLUE - Section Chief/EPA

Attachment 2

Attachment 2

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Attachment I-1, Regulations Incorporated by Reference

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### Attachment II-1

### Waste Analysis Plan

Attachment II-1-1,	Reserved (June 7, 2006)
Attachment II-1-2,	Waste Analysis Plan for Treatment Wastes
Attachment II-1-2-1,	Approved Treatment Reagents
Attachment II-1-3,	Waste Stabilization Plan
Attachment II-1-4,	Liquid Waste Management Plan
Attachment II-1-4-1,	Analytical Procedures for Formula Development Liquid Waste Solidification Method EC-2301
Attachment II-1-5,	Macroencapsulation Plan
Attachment II-1-6,	Leachate, Evaporation, and Decontamination Waste Management Plan

Attachment II-1-7, Attachment II-1-8, Attachment II-1-9, Attachment II-1-10, Attachment II-1-10 1	Spray Washing Plan Microencapsulation Plan Mixed Waste Operations Building Operating Plan Management of Wastes Containing Polychlorinated Biphenyls (PCBs) Plan for Management of Waste Containing Polychlorinated Biphenyls (PCBs) at the LLRW Facility
Attachment II-1-11, Attachment II-1-12, Attachment II-1-12-1,	Mixed Waste Treatment Building Operating Plan Thermal Desorption Separation Plan Thermal Desorption Shakedown Operations and Waste Family Demonstration Testing
Attachment II-1-12-2,	Pre-Demonstration Plan for Volatile and Semi-Volatile Organic Compounds
Attachment II-1-12-3, Attachment II-1-12-4, Attachment II-1-13, Attachment II-1-14,	CMBST-Coded Waste Pre-Demonstration Plan Volatile Metals Pre-Demonstration Plan Mixed Waste Storage Building Operating Plan Plan for the Management of Waste Codes F020-F023 and F026-F027
Attachment II-2	Site Security Plan
Attachment II-3	Site Inspection Plan
Attachment II-4	Personnel Training Plan
Attachment II-5	Preparedness and Prevention Plan
Attachment II-6	Contingency Plan
Attachment II-7	Closure Plan
Attachment II-7-1, Attachment II-7-1 1, Attachment II-7-2, Attachment II-7-2 1,	Closure Cost Estimate - Calculations Closure Cost Estimate – Cost Sheets Irrevocable Letter of Credit Closure and Post-Closure Trust Agreement
Attachment II-8	Post Closure Plan
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Attachment II-10	Plan for Controlling Wind Dispersal
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Fire Protection Plan

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<b>E</b>	<b>General Groundwater Monitoring Requirements</b>	<b>2</b>
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<b>Attachment VI-2</b>	<b>Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities</b>
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# ENERGYSOLUTIONS SITE FACILITIES

DWG NO DESCRIPTION

0801-GD1 PROPERTY AREA AND RAILROAD TRACKS

0801-G02 TOPOGRAPHY OF PERMITTED AREA

0801-G03 FACILITY LAYOUT AND STRUCTURES

0801-G04 RESTRICTED ACCESS AREA

0801-G05 SECTION AND PROPERTY MAP

07007-J01 ENVIRONMENTAL MONITORS

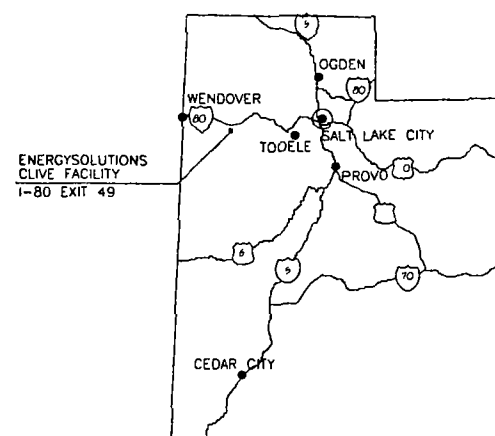
07007-J02 GROUNDWATER MONITORING WELLS

## LEGEND

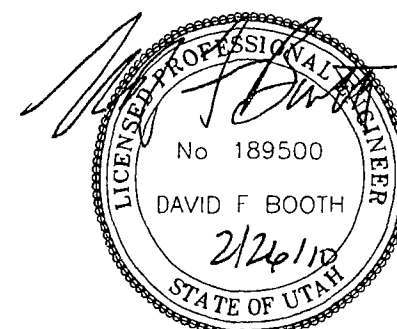
- PROPERTY LINE
- RAILROAD
- SECTION LINE
- ENERGYSOLUTIONS PROPERTY

## KEYNOTES

- UNION PACIFIC MAIN RAIL LINE (RIGHT-OF-WAY NOT SHOWN)
- ENERGYSOLUTIONS PRIMARY RAIL LINE
- ENERGYSOLUTIONS SECONDARY RAIL
- ENERGYSOLUTIONS TERTIARY RAIL LINE
- ENERGYSOLUTIONS QUARTERNARY RAIL
- ENERGYSOLUTIONS RAIL LINE N1
- ENERGYSOLUTIONS RAIL LINE N2
- ENERGYSOLUTIONS RAIL LINE #1
- ENERGYSOLUTIONS RAIL LINE #2
- ENERGYSOLUTIONS RAIL LINE #3
- ENERGYSOLUTIONS RAIL LINE #4
- CROSSOVER RAIL #3 TO RAIL #4
- TRACK-HOE RAMP SPUR
- WEST RAIL SPUR
- ENERGYSOLUTIONS TRACK A
- ENERGYSOLUTIONS TRACK B
- ENERGYSOLUTIONS LADDER TRACK #2



UTAH  
VICINITY MAP



**ENERGYSOLUTIONS**  
CLIVE FACILITY  
ENERGYSOLUTIONS SITE FACILITIES  
PROPERTY WITH RAIL LINES  
CLIVE UTAH

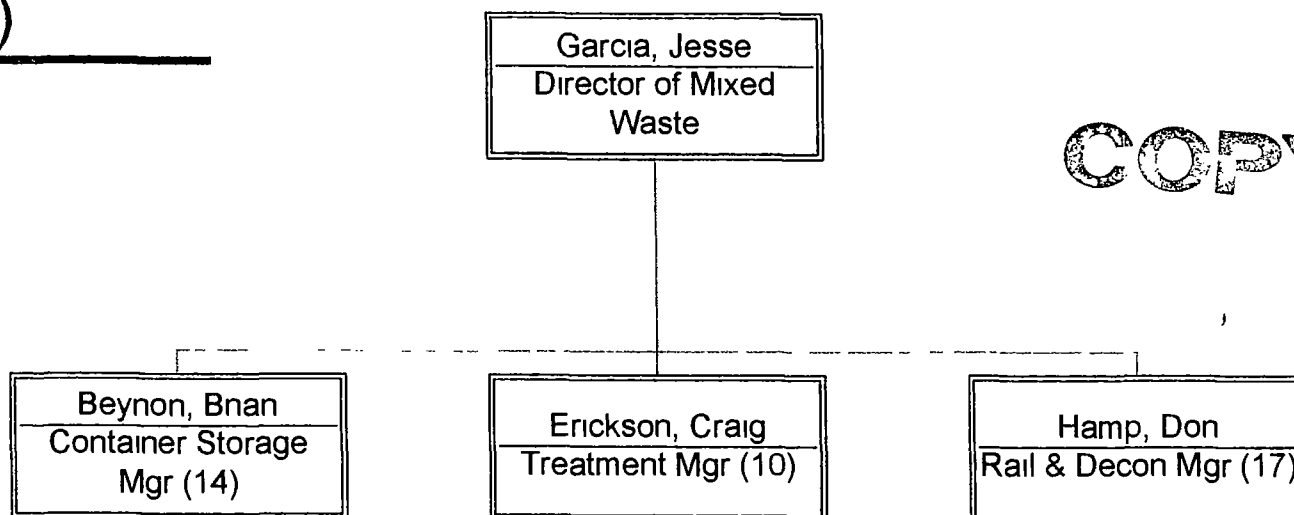
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DATE BY  
D BOOTH  
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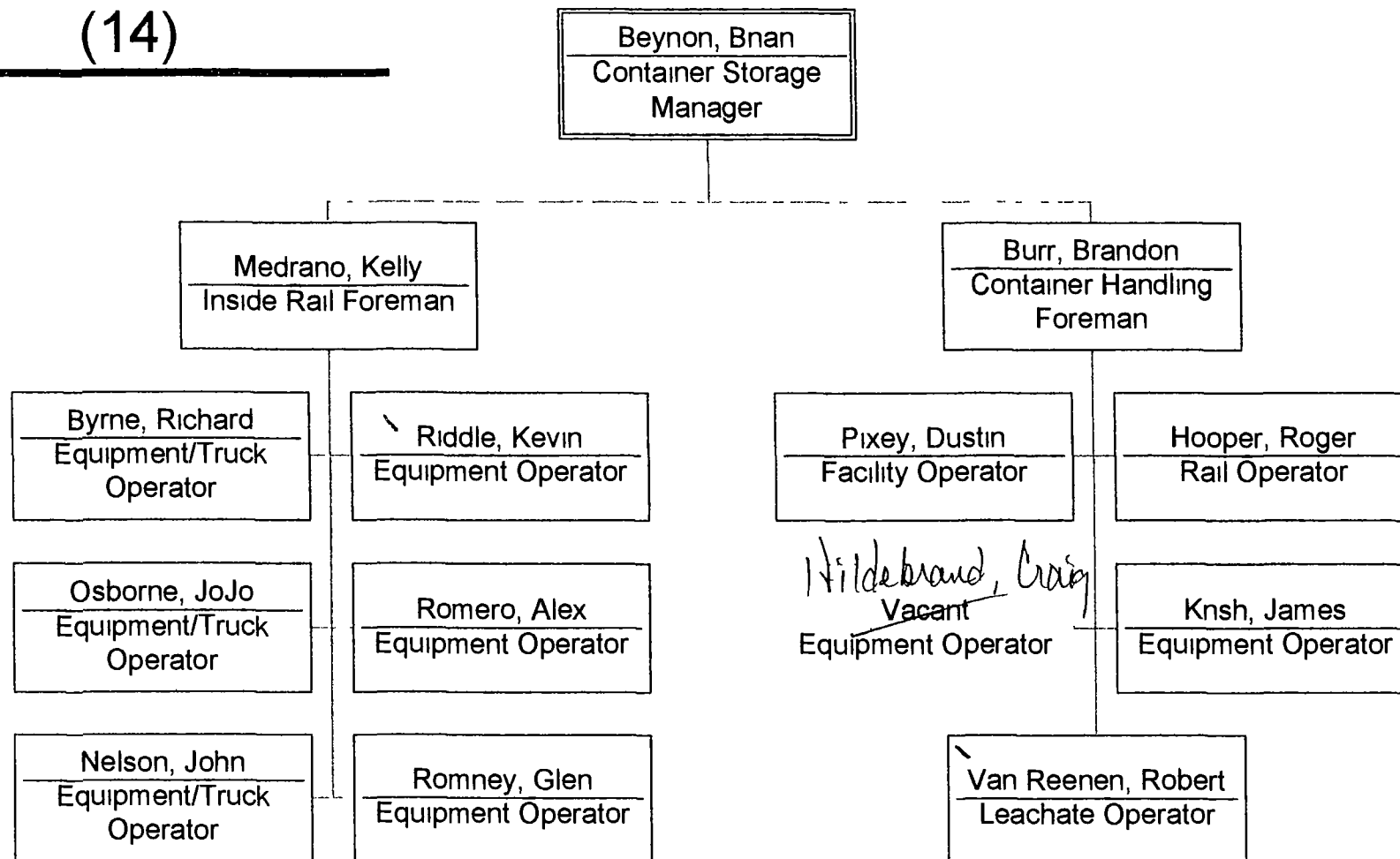
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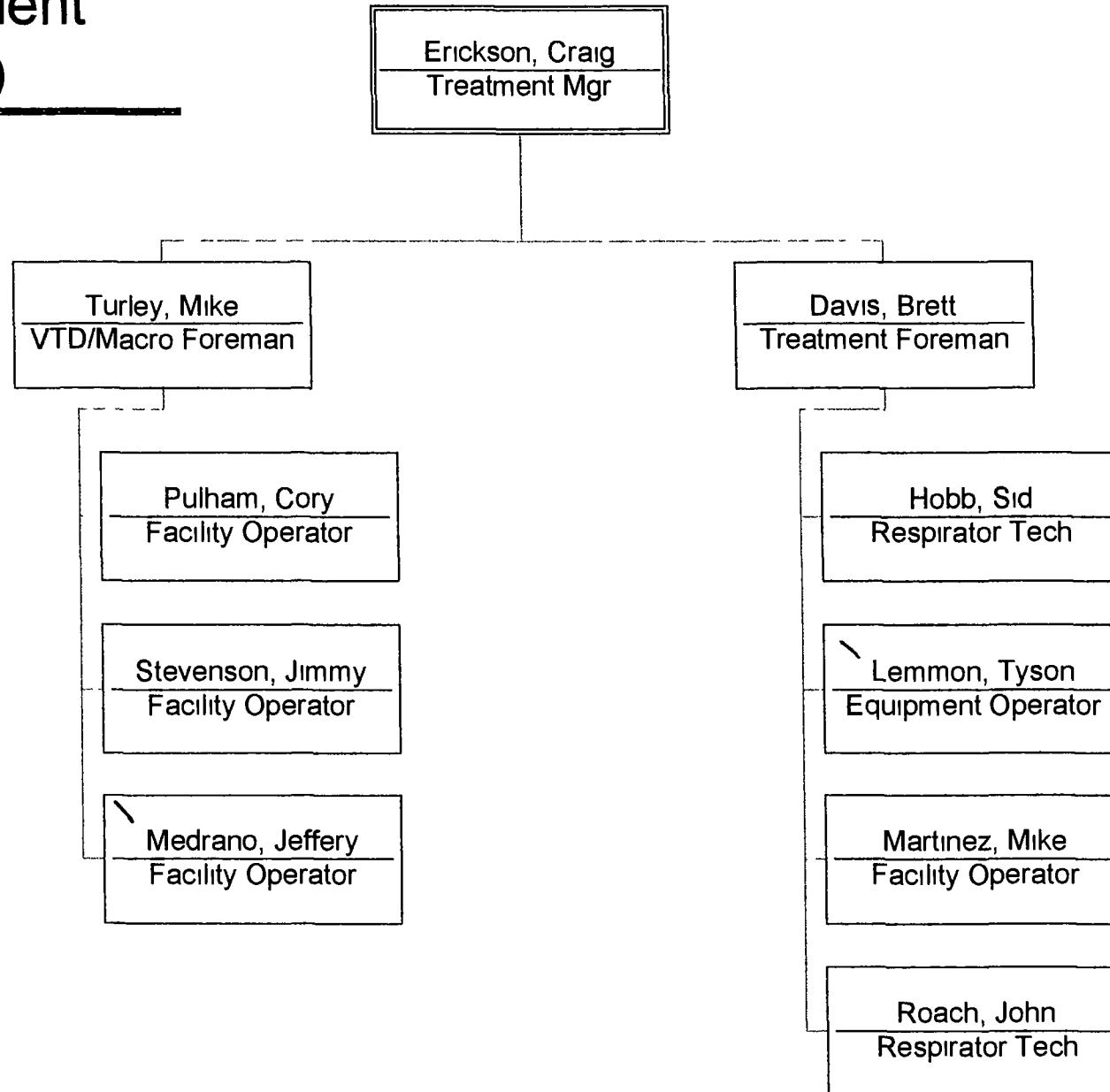


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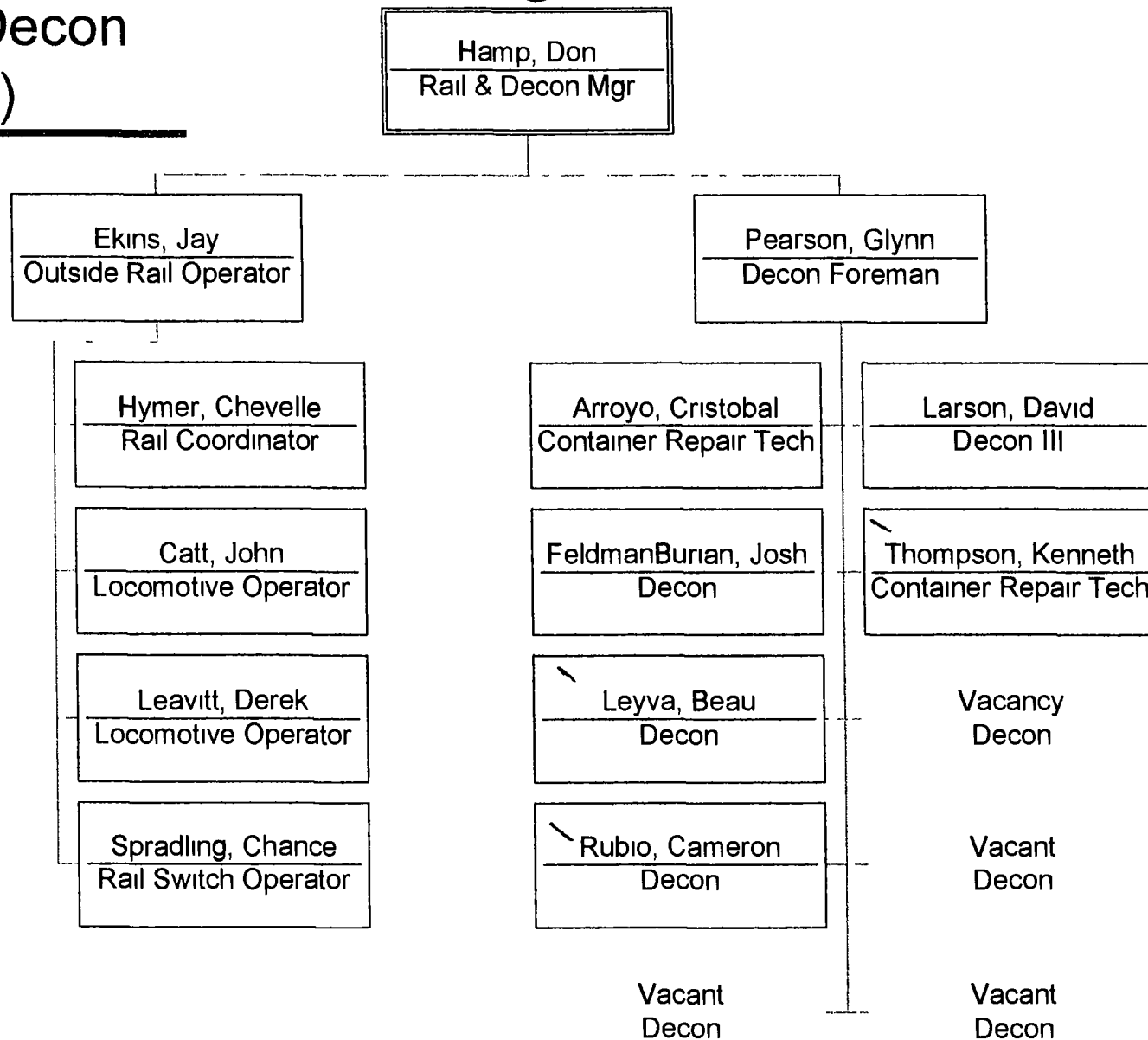
# Container Storage (14)



# Treatment (10)



# Rail & Decon (17)



## TRAINING OUTLINE

Training Subject 11 e (2) Training- CL-RS-PR-061
Training Date(s) 10/14/2009
Name of person completing outline H W Reynolds
Why was training conducted? 11 e 2 - CL-RS-PR-061
Please provide an outline of topics discussed
Were "hands-on" activities or demonstrations performed or provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe
Were overheads, slides, or handout materials used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe
Was a test given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe
Were any procedures, regulations or other written materials referenced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe CL-SH-PR-061

# COPY



CL-TN-PR-060-F1  
Revision 0

## TENDANCE ROSTER

Date <u>10-14-09</u>	Length of Class (Hours) <u>0.5</u>
Instructor <u>H. REYNOLDS</u>	Subject <u>1102 INSPECTOR</u>

CL-RS-PR-061

Printed Name	Initials	Employer	Department
Art Fleming	—	ES	HP
Dale Thorne	DT	ES	HP
Darryl Kelley	DK	ES	HP
Debbie Blanco	DB	ES	HP
Gordon Dahle	—	ES	HP
Harry Reynolds	HR	ES	HP
John Jeandrevm	—	ES	HP
John Zehendner	JZ	ES	HP
Karee Peterson	KP	ES	HP
Leo Blanco	LB	ES	HP
Larry Whatley	—	ES	HP
Lynette Cooley	LC	ES	HP
Matt Elliott	ME	ES	HP
Marlow Hayden	—	ES	HP
Michael Buchanan	—	ES	HP
Richard Chalk	RC	ES	HP
Roger Rowberry	RR	ES	HP
Terry Davis	TD	ES	HP
Walt Gonis	—	ES	HP
Dusty Boland	—	ES	HP
Doug Turner	DT	ES	HP
Abol Mortazavi	AM	ES	HP

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

Company  
EnergySolutions/Processmg

Department/Position  
MW/Operations/Facility Operator

Badge Code  
Active/Orange

Slot Number  
M009/613

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	6/10/2003	Non Expiring	Qualified on 06/10/2003 Qualified on 06/10/2003 Qualified on 06/12/2002 Qualified on 06/20/2001 Qualified on 06/28/2000 Qualified on 7/23/99 Qualified on 7/22/98
F1000 SR 1 Site Regulations	Yes	7/28/1998	Non Expiring	Qualified on 7/28/98
F1030 Previous Exposure Questionnaire	Yes	7/28/1998	Non Expiring	Qualified on 7/28/98
F1050 On the Job Training Qualification	Yes	7/28/1998		Qualified on 7/28/98
11000 QA Whistleblower Protection	Yes	7/20/1998	Non-Expiring	Qualified on 7/20/98
11010 Environmental Safety and Compliance	Yes	7/20/1998	Non Expiring	
11020 Emergency Response & Contingency Plan	Yes	7/20/1998	Non Expiring	Qualified on 7/20/98



# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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11030 Radiation Worker Safety	Yes	4/14/2010	Expires 4/14/2011	Qualified on 04/14/2010
				Qualified on 04/14/2010
				Qualified on 04/22/2009
				Qualified on 04/28/2008
				Qualified on 04/28/2008
				Qualified on 05/01/2007
				Qualified on 05/01/2007
				Qualified on 05/03/2006
				Qualified on 05/03/2006
				Qualified on 05/05/2005
				Qualified on 05/05/2005
				Qualified on 11/02/2004
				Qualified on 11/02/2004
				Qualified on 05/06/2004
				Qualified on 05/06/2004
				Qualified on 11/10/2003
				Qualified on 11/10/2003
				Qualified on 05/09/2003
				Qualified on 05/09/2003
				Qualified on 11/19/2002
				Qualified on 11/19/2002
				Qualified on 05/23/2002
				Qualified on 05/23/2002
				Qualified on 05/21/2002

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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Qualified on 05/21/2002

Qualified on 12/11/2001

Qualified on 06/12/2001

Qualified on 12/14/2000

Qualified on 06/29/2000

Qualified on 01/07/2000

Qualified on 7/31/99

Qualified on 1/31/99

Qualified on 7/20/98

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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11031 11(e)2 Operator Refresher	Yes	4/14/2010	Expires 4/14/2011	Qualified on 04/14/2010
------------------------------------	-----	-----------	-------------------	-------------------------

				Qualified on 04/14/2010
				Qualified on 04/22/2009
				Qualified on 04/28/2008
				Qualified on 04/28/2008
				Qualified on 05/01/2007
				Qualified on 05/01/2007
				Qualified on 05/03/2006
				Qualified on 05/03/2006
				Qualified on 05/05/2005
				Qualified on 05/05/2005
				Qualified on 11/02/2004
				Qualified on 11/02/2004
				Qualified on 05/06/2004
				Qualified on 05/06/2004
				Qualified on 11/10/2003
				Qualified on 11/10/2003
				Qualified on 05/09/2003
				Qualified on 05/09/2003
				Qualified on 11/19/2002
				Qualified on 11/19/2002
				Qualified on 05/23/2002
				Qualified on 05/23/2002
				Qualified on 05/21/2002

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

Company  
Energy Solutions/Processing

Department/Position  
MW/Operations/Facility Operator

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M009/613

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Qualified on 05/21/2002

Qualified on 12/11/2001

Qualified on 12/14/2000

Qualified on 06/29/2000

Qualified on 01/07/2000

Qualified on 7/31/98

11040 Air Quality Approval Order	Yes	1/29/1999	Non-Expiring	Qualified on 01/29/1999
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11050 Hazard Communication	Yes	7/21/1998	Non Expiring	Qualified on 7/21/98
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11060 Hazardous Waste Management	Yes	7/21/1998	Non Expiring	Qualified on 7/21/98
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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

11070 DOT Hazmat Employee Awareness	Yes	10/6/2009	Expires 10/5/2012	Qualified on 10/06/2009
				Qualified on 10/06/2009
				Qualified on 10/08/2008
				Qualified on 10/08/2008
				Qualified on 10/24/2007
				Qualified on 10/24/2007
				Qualified on 10/11/2006
				Qualified on 10/11/2006
				Qualified on 10/28/2005
				Qualified on 10/28/2005
				Qualified on 11/02/2004
				Qualified on 11/02/2004
				Qualified on 11/10/2003
				Qualified on 11/10/2003
				Qualified on 11/19/2002
				Qualified on 11/19/2002
				Qualified on 12/11/2001
				Qualified on 12/14/2000
				Qualified on 7/22/98
11080 Personal Safety	Yes	7/22/1998	Non Expiring	Qualified on 7/22/98
11090 Respiratory Protection	Yes	7/23/1998	Non Expiring	Qualified on 7/23/98

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

12000 24 or 40 Hour HAZWOPER	Yes	10/6/2009	Expires 10/6/2010	Qualified on 10/06/2009 Qualified on 10/06/2009 Qualified on 10/08/2008 Qualified on 10/08/2008 Qualified on 10/24/2007 Qualified on 10/24/2007 Qualified on 10/11/2006 Qualified on 10/11/2006 Qualified on 10/28/2005 Qualified on 10/28/2005 Qualified on 11/02/2004 Qualified on 11/02/2004 Qualified on 11/10/2003 Qualified on 11/10/2003 Qualified on 11/19/2002 Qualified on 11/19/2002 Qualified on 12/11/2001 Qualified on 12/14/2000 Qualified on 06/26/2000 Qualified on 07/30/1999 Qualified on 7/22/98
12010 10 Hour RCRA Site Specific	Yes	7/21/1998	Non Expiring	Qualified on 7/21/98

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
Energy Solutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

---

M1000 Hazmat Physical	Yes	5/19/2009	Expires 5/19/2011	Qualified on 05/19/2009
				Qualified on 05/19/2009
				Qualified on 05/24/2007
				Qualified on 06/06/2005
				Qualified on 06/06/2005
				Qualified on 06/04/2003
				Qualified on 06/04/2003
				Qualified on 06/10/2002
				Qualified on 06/10/2002
				Qualified on 06/23/2000
				Qualified on 7/27/98

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
Energy Solutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

---

M1010 Asbestos Physical	Yes	5/17/2010	Expires 5/17/2011	Qualified on 05/17/2010
				Qualified on 05/17/2010
				Qualified on 05/19/2009
				Qualified on 05/19/2009
				Qualified on 05/19/2008
				Qualified on 05/19/2008
				Qualified on 05/24/2007
				Qualified on 06/02/2006
				Qualified on 06/06/2005
				Qualified on 06/06/2005
				Qualified on 06/04/2004
				Qualified on 06/04/2004
				Qualified on 06/06/2003
				Qualified on 06/06/2003
				Qualified on 06/10/2002
				Qualified on 06/10/2002
				Qualified on 06/15/2001
				Qualified on 06/23/2000
				Qualified on 7/8/99
				Qualified on 7/27/98

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

---

M1020 Respirator Physical	Yes	5/17/2010	Expires 5/17/2011	Qualified on 05/17/2010
				Qualified on 05/17/2010
				Qualified on 05/19/2009
				Qualified on 05/19/2009
				Qualified on 05/19/2008
				Qualified on 05/19/2008
				Qualified on 05/24/2007
				Qualified on 06/02/2006
				Qualified on 06/06/2005
				Qualified on 06/06/2005
				Qualified on 06/04/2004
				Qualified on 06/04/2004
				Qualified on 06/06/2003
				Qualified on 06/06/2003
				Qualified on 06/10/2002
				Qualified on 06/10/2002
				Qualified on 06/15/2001
				Qualified on 06/23/2000
				Qualified on 7/8/99
				Qualified on 7/27/98

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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M1032 North Full Face Fit Test M/L	Yes	12/10/2009	Expires 12/10/2010	Qualified on 12/10/2009
				Qualified on 12/10/2008
				Qualified on 12/10/2007
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 12/07/2005
				Qualified on 12/07/2005
				Qualified on 12/07/2004
				Qualified on 12/07/2004
				Qualified on 06/09/2004
				Qualified on 06/09/2004
				Qualified on 12/09/2003
				Qualified on 12/09/2003
				Qualified on 06/10/2003
				Qualified on 06/10/2003
				Qualified on 12/11/2002
				Qualified on 06/11/2002
				Qualified on 06/11/2002
				Qualified on 12/12/2001
				Qualified on 06/14/2001
				Qualified on 12/14/2000
				Qualified on 06/29/2000
				Qualified on 01/07/2000

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

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**Badge Code**  
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M009/613

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M1042 North Half Face Fit	Yes	12/10/2009	Expires 12/10/2010	Qualified on 12/10/2009
Test Med				Qualified on 12/10/2009
				Qualified on 01/15/2009
				Qualified on 01/15/2009
				Qualified on 12/10/2007
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 12/07/2005
				Qualified on 12/07/2005
				Qualified on 12/07/2004
				Qualified on 12/07/2004
				Qualified on 06/09/2004
				Qualified on 06/09/2004
				Qualified on 12/09/2003
				Qualified on 12/09/2003
				Qualified on 06/10/2003
				Qualified on 06/10/2003
				Qualified on 12/11/2002
				Qualified on 06/10/2002
				Qualified on 06/10/2002
				Qualified on 12/12/2001
				Qualified on 06/19/2001
				Qualified on 12/14/2000
				Qualified on 06/29/2000

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

Company  
EnergySolutions/Processing

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				Qualified on 01/07/2000
M1048 Survivair SCBA	Yes	12/10/2009	Expires 12/10/2010	Qualified on 12/10/2009
				Qualified on 12/10/2009
				Qualified on 01/15/2009
				Qualified on 01/15/2009
M1060 Audiometric Exam	Yes	5/17/2010	Expires 5/17/2011	Qualified on 05/17/2010
				Qualified on 05/17/2010
				Qualified on 05/19/2009
				Qualified on 05/19/2009
				Qualified on 05/19/2008
				Qualified on 05/19/2008
				Qualified on 05/24/2007
				Qualified on 06/02/2006
				Qualified on 06/06/2005
				Qualified on 06/06/2005
				Qualified on 06/04/2004
				Qualified on 06/04/2004
				Qualified on 06/06/2003
				Qualified on 06/06/2003
				Qualified on 06/10/2002
				Qualified on 06/10/2002
M1070 PCB Blood Test	Yes	10/11/2000	Non-Expiring	Qualified on 10/11/2000

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

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Energy Solutions/Processing

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M009/613

M1071 Beryllium Blood Test	Yes	5/18/2010	Expires 5/18/2011	Qualified on 05/18/2010 Qualified on 05/18/2010
Q1056A Mixed Waste Decontamination Operator	Yes	4/10/2007	Non Expiring	Qualified on 04/10/2007
Q1060 MW RCRA/Bat Inspector	Yes	3/20/2006	Non Expiring	Qualified on 03/20/2006 Qualified on 03/20/2006
Q1062 MW Baghouse Operator	Yes	12/10/2007	Non Expiring	Qualified on 12/10/2007 Qualified on 12/10/2007
Q1064 MW Primary Shredder Operator	Yes	12/10/2007	Non Expiring	Qualified on 12/10/2007 Qualified on 12/10/2007
Q1065 LLRW-MW Tertiary Shredder Operator	Yes	12/10/2007		Qualified on 12/10/2007 Qualified on 12/10/2007
Q1067 MW Mixer Operator	Yes	3/1/2010	Non Expiring	Qualified on 03/01/2010 Qualified on 03/01/2010
Q1076 MW Treatability & Post Treatment Sampling	Yes	10/5/2009	Non Expiring	Qualified on 10/05/2009 Qualified on 10/05/2009
Q1140 Lift Truck Operator	Yes	12/5/2008	Expires 12/5/2011	Qualified on 12/05/2008 Qualified on 12/05/2008 Qualified on 06/19/2006 Qualified on 06/19/2006
Q1141 Extending Boom Rough Terrain Lift Truck Oper	Yes	12/5/2008	Expires 12/5/2011	Qualified on 12/05/2008 Qualified on 12/05/2008
Q1143 Articulated Truck Operator	Yes	4/13/2007	Non Expiring	Qualified on 04/13/2007

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

Company  
EnergySolutions/Processing

Department/Position  
MW/Operations/Facility Operator

Badge Code  
Active/Orange

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M009/613

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Q1154 Aerial Lift Operator	Yes	4/14/2008	Non Expiring	Qualified on 04/14/2008
				Qualified on 04/14/2008
Q1190 CS Entrant Attendant-Monitor	Yes	1/12/2006	Non Expiring	Qualified on 01/12/2006
				Qualified on 01/12/2006
				Qualified on 04/15/2005
				Qualified on 04/15/2005
				Qualified on 02/19/2004
				Qualified on 02/19/2004
				Qualified on 02/06/2003
				Qualified on 02/06/2003
				Qualified on 01/17/2002
				Qualified on 02/28/2001
				Qualified on 04/19/2000
				Qualified on 01/06/2000
				Qualified on 9/9/98
Q1193R Confined Space Rescue	Yes	5/17/2010	Expires 5/17/2011	Qualified on 05/17/2010
				Qualified on 05/17/2010
Q1193S Confined Space Supervisor	Yes	3/15/2005	Non Expiring	Qualified on 03/15/2005
				Qualified on 03/15/2005
T1121 ES General Employee Traming	Yes	8/7/2008	Non Expiring	Qualified on 08/07/2008
				Qualified on 08/07/2008
T1141 Despensing Propane Safety	Yes	3/13/2008	Expires 3/13/2011	Qualified on 03/13/2008
				Qualified on 03/13/2008

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
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**Badge Code**  
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M009/613

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T1146 Railway Safety Awareness	Yes	10/6/2009	Expires 10/6/2010	Qualified on 10/06/2009
				Qualified on 10/06/2009
				Qualified on 10/14/2008
				Qualified on 10/14/2008
				Qualified on 10/15/2007
				Qualified on 10/15/2007
T1147 Fall Protection Training	Yes	1/19/2010	Expires 1/19/2011	Qualified on 01/19/2010
				Qualified on 01/19/2010
				Qualified on 01/20/2009
				Qualified on 01/20/2009
T1150 First Responder	Yes	2/5/2009	Expires 2/5/2011	Qualified on 02/05/2009
				Qualified on 02/05/2009
				Qualified on 01/26/2007
				Qualified on 01/26/2007
				Qualified on 01/19/2005
				Qualified on 01/19/2005
				Qualified on 02/18/2003
				Qualified on 02/18/2003
				Qualified on 03/15/2000
T1160 Van Driver Training	Yes	7/29/2010	Expires 7/28/2013	Qualified on 07/29/2010
				Qualified on 07/29/2010
				Qualified on 07/17/2007
				Qualified on 07/17/2007

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

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M009/613

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T1165 Emergency Vehicle Operations	Yes	1/30/2010	Expires 12/24/2012	Qualified on 01/30/2010
				Qualified on 01/30/2010
				Qualified on 08/02/2007
T1170 CPR	Yes	2/5/2009	Expires 2/5/2011	Qualified on 02/05/2009
				Qualified on 02/05/2009
				Qualified on 01/31/2008
				Qualified on 01/31/2008
				Qualified on 12/19/2005
				Qualified on 12/19/2005
				Qualified on 04/18/2001
				Qualified on 04/18/2001
T1171 First Aid	Yes	2/5/2009	Expires 2/5/2012	Qualified on 02/05/2009
				Qualified on 02/05/2009
				Qualified on 01/31/2008
				Qualified on 01/31/2008
				Qualified on 12/19/2005
				Qualified on 12/19/2005
				Qualified on 04/18/2001
				Qualified on 04/18/2001

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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T1231 Beryllium Training	Yes	5/5/2010	Expires 5/5/2011	Qualified on 05/05/10
				Qualified on 05/20/2009
				Qualified on 05/20/2009
				Qualified on 06/18/2009
				Qualified on 06/18/2008
				Qualified on 06/18/2008
				Qualified on 06/28/2007
				Qualified on 06/28/2007
				Qualified on 06/29/2006
				Qualified on 06/29/2006
				Qualified on 07/07/2005
				Qualified on 07/07/2005
				Qualified on 01/25/2005
				Qualified on 01/25/2005
T1235 Asbestos Training	Yes	10/6/2009	Expires 10/6/2010	Qualified on 10/06/2009
				Qualified on 10/06/2009
				Qualified on 10/08/2008
				Qualified on 10/08/2008
				Qualified on 05/07/2008
				Qualified on 05/07/2008

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processing

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

---

T1240 Defensive Driver	Yes	6/12/2009	Expires 6/11/2012	Qualified on 06/12/2009
				Qualified on 06/12/2009
				Qualified on 06/19/2006
				Qualified on 06/19/2006
				Qualified on 05/28/2003
				Qualified on 05/28/2003

# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processmg

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MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

---

T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/01/2009
				Qualified on 07/01/2009
				Qualified on 07/02/2008
				Qualified on 07/02/2008
				Qualified on 07/07/2005
				Qualified on 07/07/2005
				Qualified on 01/25/2005
				Qualified on 01/25/2005
				Qualified on 01/26/2004
				Qualified on 01/26/2004
				Qualified on 01/31/2003
				Qualified on 01/31/2003
				Qualified on 05/29/2002
				Qualified on 05/29/2002
				Qualified on 01/03/2002
				Qualified on 01/03/2002
				Qualified on 03/01/2001
				Qualified on 02/26/2001

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# Employee Training Record

9/29/2010

**Lemmon, Tyson**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
MW/Operations/Facility Operator

**Badge Code**  
Active/Orange

**Slot Number**  
M009/613

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T1270 Lockout/Tagout	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/01/2009
				Qualified on 07/01/2009
				Qualified on 07/02/2008
				Qualified on 07/02/2008
				Qualified on 07/05/2007
				Qualified on 07/05/2007
				Qualified on 07/05/2007
				Qualified on 07/18/2006
				Qualified on 07/18/2006
				Qualified on 07/07/2005
				Qualified on 07/07/2005
				Qualified on 06/14/2004
				Qualified on 06/14/2004
				Qualified on 01/17/2002
				Qualified on 03/01/2001

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# Employee Training Record

9/28/2010

**Beynon, Brian F**

Company  
EnergySolutions/Processing

Department/Position  
Common/Operations/Container Storage Manager

Badge Code  
Active/Orange

Slot Number  
M059/1865

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
F1000 SR 1 Site Regulations	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
F1030 Previous Exposure Questionnaire	Yes	11/18/2003	Non Expiring	Qualified on 11/18/2003 Qualified on 11/18/2003
F1060 Employee Safety Handbook Received	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010 Qualified on 12/05/2003 Qualified on 12/05/2003
11000 QA Whistleblower Protection	Yes	11/18/2003	Non Expiring	Qualified on 11/18/2003 Qualified on 11/18/2003
11005 Site Orientation	Yes	11/17/2003	Non Expiring	Qualified on 11/17/2003 Qualified on 11/17/2003
11020 Emergency Response & Contingency Plan	Yes	11/18/2003	Non Expiring	Qualified on 11/18/2003 Qualified on 11/18/2003

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# Employee Training Record

9/28/2010

**Beynon, Brian F**

**Company**  
EnergySolutions/Processing

**Department/Position**  
Common/Operations/Container Storage Manager

**Badge Code**  
Active/Orange

**Slot Number**  
M059/1865

---

11030 Radiation Worker Safety	Yes	6/7/2010	Expires 6/7/2011	Qualified on 06/07/2010
				Qualified on 06/04/2009
				Qualified on 06/04/2009
				Qualified on 06/03/2008
				Qualified on 06/03/2008
				Qualified on 06/04/2007
				Qualified on 06/04/2007
				Qualified on 06/05/2006
				Qualified on 05/02/2005
				Qualified on 05/02/2005
				Qualified on 11/04/2004
				Qualified on 11/04/2004
				Qualified on 05/06/2004
				Qualified on 05/06/2004
				Qualified on 11/17/2003
				Qualified on 11/17/2003

# Employee Training Record

9/28/2010

**Beynon, Brian F**

Company  
EnergySolutions/Processing

Department/Position  
Common/Operations/Container Storage Manager

Badge Code  
Active/Orange

Slot Number  
M059/1865

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11031 11(e)2 Operator Refresher	Yes	6/7/2010	Expires 6/7/2011	Qualified on 06/07/2010 Qualified on 06/04/2009 Qualified on 06/04/2009 Qualified on 06/03/2008 Qualified on 06/03/2008 Qualified on 06/04/2007 Qualified on 06/04/2007 Qualified on 06/05/2006 Qualified on 05/02/2005 Qualified on 05/02/2005 Qualified on 11/04/2004 Qualified on 11/04/2004 Qualified on 05/06/2004 Qualified on 05/06/2004
11050 Hazard Communication	Yes	11/19/2003	Non Expiring	Qualified on 11/19/2003 Qualified on 11/19/2003
11051 Advance Hazard Communication	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
11060 Hazardous Waste Management	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
11065 LLRW Waste Management	Yes	11/18/2003	Non-Expiring	Qualified on 11/18/2003 Qualified on 11/18/2003

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# Employee Training Record

9/28/2010

**Beynon, Brian F**

Company  
EnergySolutions/Processing

Department/Position  
Common/Operations/Container Storage Manager

Badge Code  
Active/Orange

Slot Number  
M059/1865

---

11070 DOT Hazmat Employee Awareness	Yes	6/16/2010	Expires 6/15/2013	Qualified on 06/16/2010
				Qualified on 06/16/2010
				Qualified on 05/26/2009
				Qualified on 05/26/2009
				Qualified on 10/28/2008
				Qualified on 10/28/2008
				Qualified on 11/13/2007
				Qualified on 11/13/2007
				Qualified on 11/15/2005
				Qualified on 11/15/2005
				Qualified on 11/17/2004
				Qualified on 11/17/2004
				Qualified on 11/18/2003
				Qualified on 11/18/2003
11080 Personal Safety	Yes	11/19/2003	Non Expiring	Qualified on 11/19/2003
				Qualified on 11/19/2003
11090 Respiratory Protection	Yes	11/19/2003	Non Expiring	Qualified on 11/19/2003
				Qualified on 11/19/2003

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# Employee Training Record

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**Beynon, Brian F**

**Company**  
EnergySolutions/Processing

**Department/Position**  
Common/Operations/Container Storage Manager

**Badge Code**  
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**Slot Number**  
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12000 24 or 40 Hour HAZWOPER	Yes	6/16/2010	Expires 6/16/2011	Qualified on 06/16/2010 Qualified on 06/16/2010 Qualified on 05/26/2009 Qualified on 05/26/2009 Qualified on 10/28/2008 Qualified on 10/28/2008 Qualified on 11/13/2007 Qualified on 11/13/2007 Qualified on 11/22/2006 Qualified on 11/15/2005 Qualified on 11/15/2005 Qualified on 11/17/2004 Qualified on 11/17/2004 Qualified on 11/20/2003 Qualified on 11/20/2003
12001 24 Hazwoper Final	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003
12010 10 Hour RCRA Site Specific	Yes	11/20/2003	Non Expiring	Qualified on 11/20/2003 Qualified on 11/20/2003

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9/28/2010

**Beynon, Brian F**

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M1000 Hazmat Physical	Yes	10/31/2008	Expires 10/31/2010	Qualified on 10/31/2008
				Qualified on 11/03/2006
				Qualified on 11/03/2006
				Qualified on 11/09/2005
				Qualified on 11/09/2005
				Qualified on 11/11/2003
				Qualified on 11/11/2003
M1010 Asbestos Physical	Yes	11/2/2009	Expires 11/2/2010	Qualified on 11/02/2009
				Qualified on 11/02/2009
				Qualified on 10/31/2008
				Qualified on 10/31/2008
				Qualified on 11/02/2007
				Qualified on 11/02/2007
				Qualified on 11/03/2006
				Qualified on 11/03/2006
				Qualified on 11/09/2005
				Qualified on 11/09/2005
				Qualified on 11/10/2004
				Qualified on 11/10/2004
				Qualified on 11/11/2003
				Qualified on 11/11/2003

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M1020 Respirator Physical	Yes	11/2/2009	Expires 11/2/2010	Qualified on 11/02/2009
				Qualified on 11/02/2009
				Qualified on 10/31/2008
				Qualified on 11/02/2007
				Qualified on 11/02/2006
				Qualified on 11/02/2006
				Qualified on 11/09/2005
				Qualified on 11/09/2005
				Qualified on 11/10/2004
				Qualified on 11/10/2004
				Qualified on 11/11/2003
				Qualified on 11/11/2003

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M1032 North Full Face Fit Test M/L	Yes	9/29/2009	Expires 9/29/2010	Qualified on 09/29/2009
				Qualified on 09/29/2009
				Qualified on 09/02/2008
				Qualified on 09/02/2008
				Qualified on 08/28/2007
				Qualified on 08/28/2006
				Qualified on 08/29/2005
				Qualified on 08/29/2005
				Qualified on 08/24/2004
				Qualified on 08/24/2004
				Qualified on 11/20/2003
				Qualified on 11/20/2003

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M1042 North Half Face Fit	Yes	9/29/2009	Expires 9/29/2010	Qualified on 09/29/2009
Test Med				Qualified on 09/29/2009
				Qualified on 12/22/2008
				Qualified on 12/22/2008
				Qualified on 09/02/2008
				Qualified on 09/02/2008
				Qualified on 08/28/2007
				Qualified on 08/28/2006
				Qualified on 08/28/2006
				Qualified on 08/29/2005
				Qualified on 08/29/2005
				Qualified on 08/24/2004
				Qualified on 08/24/2004
				Qualified on 11/20/2003
				Qualified on 11/20/2003

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M1060 Audiometric Exam	Yes	11/2/2009	Expires 11/2/2010	Qualified on 11/02/2009
				Qualified on 11/02/2009
				Qualified on 10/31/2008
				Qualified on 10/31/2008
				Qualified on 11/02/2007
				Qualified on 11/02/2006
				Qualified on 11/02/2006
				Qualified on 11/09/2005
				Qualified on 11/09/2005
				Qualified on 11/10/2004
				Qualified on 11/10/2004
				Qualified on 11/11/2003
				Qualified on 11/11/2003
M1070 PCB Blood Test	Yes	10/31/2008	Non Expiring	Qualified on 10/31/2008
				Qualified on 10/31/2008
				Qualified on 11/11/2003
				Qualified on 11/11/2003

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M1071 Beryllium Blood Test	Yes	4/16/2010	Expires 4/16/2011	Qualified on 04/16/2010
				Qualified on 04/16/2010
				Qualified on 04/19/2010
				Qualified on 04/17/2009
				Qualified on 04/17/2009
				Qualified on 04/15/2008
				Qualified on 04/15/2008
Q1022B LLRW 11E(2) Sampling	Yes	11/8/2007	Non Expiring	Qualified on 11/08/2007
				Qualified on 11/08/2007
Q1022C MW & RCRA Sampling	Yes	11/8/2007	Non Expiring	Qualified on 11/08/2007
				Qualified on 11/08/2007
Q1049 LLRW MW Truck Escort	Yes	4/30/2008	Non-Expiring	Qualified on 04/30/2008
				Qualified on 04/30/2008
Q1053 MW Shipment Receipt	Yes	4/30/2008	Non Expiring	Qualified on 04/30/2008
				Qualified on 04/30/2008
Q1054 MW Container Management	Yes	4/19/2007	Non-Expiring	Qualified on 04/19/2007
				Qualified on 04/19/2007
Q1055 MW Disposal Operations	Yes	4/6/2009	Non Expiring	Qualified on 04/06/2009
				Qualified on 04/06/2009
Q1056A Mixed Waste Decontamination Operator	Yes	4/18/2007	Non Expiring	Qualified on 04/18/2007
				Qualified on 04/18/2007
Q1060 MW RCRA/Bat Inspector	Yes	4/19/2007	Non-Expiring	Qualified on 04/19/2007
				Qualified on 04/19/2007

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Q1073 Leachate Collection Operator	Yes	4/19/2007	Non Expnmg	Qualified on 04/19/2007 Qualified on 04/19/2007
Q1075 LLRW-MW Vactor Truck Operator	Yes	4/19/2007		Qualified on 04/19/2007 Qualified on 04/19/2007
Q1140 Lift Truck Operator	Yes	6/12/2009	Expires 6/11/2012	Qualified on 06/12/2009 Qualified on 06/12/2009 Qualified on 04/27/2006 Qualified on 04/27/2006
Q1141 Extending Boom Rough Terrain Lift Truck Oper	Yes	11/19/2005	Expired	Qualified on 11/19/2005 Qualified on 11/19/2005
Q1142 Loader Operator	Yes	11/19/2005	Non Expmng	Qualified on 11/19/2005 Qualified on 11/19/2005
Q1142F Fork Equipped Loader Operator	Yes	4/30/2008	Non Expiring	Qualified on 04/30/2008 Qualified on 04/30/2008
Q1143 Articulated Truck Operator	Yes	11/18/2005	Non Expiring	Qualified on 11/18/2005 Qualified on 11/18/2005
Q1145 Roll off Truck Operator	Yes	2/23/2009	Non Expiring	Qualified on 02/23/2009 Qualified on 02/23/2009 Qualified on 04/30/2008 Qualified on 04/30/2008
Q1150 Farm Tractor Operator	Yes	4/30/2008	Non Expiring	Qualified on 04/30/2008 Qualified on 04/30/2008

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Q1152 Track Hoe (Excavator) Operator	Yes	1/6/2006	Non Expiring	Qualified on 01/06/2006 Qualified on 01/06/2006
Q1154 Aerial Lift Operator	Yes	4/30/2008	Non Expiring	Qualified on 04/30/2008 Qualified on 04/30/2008
Q1158 Hyster Yardmaster Operator	Yes	8/14/2006	Non Expiring	Qualified on 08/14/2006 Qualified on 08/14/2006
Q1160 Water Truck Operator	Yes	4/30/2008	Non Expiring	Qualified on 04/30/2008 Qualified on 04/30/2008
Q1190 CS Entrant, Attendant Monitor	Yes	1/12/2006	Non Expiring	Qualified on 01/12/2006 Qualified on 01/12/2006
Q2103 CWF Cask Team Operator	Yes	2/23/2009	Non Expiring	Qualified on 02/23/2009 Qualified on 02/23/2009
Q2105 CWF Cask Team Supervisor	Yes	2/23/2009	Non Expiring	Qualified on 02/23/2009 Qualified on 02/23/2009
Q2116 Critical Lifts	Yes	2/23/2009	Non Expiring	Qualified on 02/23/2009 Qualified on 02/23/2009
T1121 ES General Employee Training	Yes	8/7/2008	Non Expiring	Qualified on 08/07/2008 Qualified on 08/07/2008
T1130 Rigging Trammg	Yes	1/15/2009	Non Expiring	Qualified on 01/15/2009 Qualified on 01/15/2009
T1141 Dispensing Propane Safety	Yes	3/13/2008	Expires 3/13/2011	Qualified on 03/13/2008 Qualified on 03/13/2008

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T1145 Rail Switchman Training	Yes	1/15/2010	Expires 1/15/2011	Qualified on 01/15/2010 Qualified on 01/15/2010
T1146 Railway Safety Awareness	Yes	6/16/2010	Expires 6/16/2011	Qualified on 06/16/2010 Qualified on 10/07/2009 Qualified on 10/07/2009 Qualified on 10/14/2008 Qualified on 10/14/2008 Qualified on 10/15/2007 Qualified on 10/15/2007 Qualified on 11/21/2006 Qualified on 11/21/2006 Qualified on 12/07/2005 Qualified on 12/07/2005
T1147 Fall Protection Training	Yes	3/31/2010	Expires 3/31/2011	Qualified on 03/31/2010 Qualified on 03/31/2010
T1150LS DOT Cargo Securement	Yes	3/23/2005	Expired	Qualified on 03/23/2005 Qualified on 03/23/2005
T1160 Van Driver Training	Yes	11/4/2009	Expires 11/3/2012	Qualified on 11/04/2009 Qualified on 06/01/2006 Qualified on 06/01/2006

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T1170 CPR	Yes	11/27/2007	Expired	Qualified on 11/27/2007
				Qualified on 11/27/2007
				Qualified on 12/19/2005
				Qualified on 12/19/2005
T1171 First Aid	Yes	11/27/2007	Expires 11/26/2010	Qualified on 11/27/2007
				Qualified on 11/27/2007
				Qualified on 12/19/2005
				Qualified on 12/19/2005
T1231 Beryllium Training	Yes	5/26/2010	Expires 5/26/2011	Qualified on 05/26/2010
				Qualified on 05/26/2010
				Qualified on 05/20/2009
				Qualified on 05/20/2009
				Qualified on 06/18/2008
				Qualified on 06/18/2008
				Qualified on 06/28/2007
				Qualified on 06/28/2007
				Qualified on 02/02/2007
				Qualified on 02/02/2007
				Qualified on 02/02/2006
				Qualified on 02/02/2006

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T1235 Asbestos Traming	Yes	6/16/2010	Expires 6/16/2011	Qualified on 06/16/2010
				Qualified on 06/16/2010
				Qualified on 05/26/2009
				Qualified on 05/26/2009
				Qualified on 10/28/2008
				Qualified on 10/28/2008
				Qualified on 05/07/2008
				Qualified on 05/07/2008
				Qualified on 05/17/2007
				Qualified on 05/17/2007
T1240 Defensive Driver	Yes	4/16/2007	Expired	Qualified on 04/16/2007
				Qualified on 04/16/2007
				Qualified on 11/21/2003
				Qualified on 11/21/2003
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/01/2009
				Qualified on 07/01/2009
				Qualified on 07/02/2008
				Qualified on 07/02/2008

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T1270 Lockout/Tagout	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/01/2009
				Qualified on 07/01/2009
				Qualified on 07/02/2008
				Qualified on 07/02/2008
				Qualified on 07/05/2007
				Qualified on 07/05/2007
				Qualified on 07/05/2007

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**Van Reenen, Robert P**

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Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009 Qualified on 11/19/2009 Exit WBC on 09/28/2005 Qualified on 06/09/2004 Qualified on 06/09/2004 Exit WBC on 02/05/2003 Qualified on 08/12/2002
F1000 SR 1 Site Regulations	Yes	8/12/2002	Non Expiring	Qualified on 08/12/2002 Qualified on 08/12/2002
F1030 Previous Exposure Questionnaire	Yes	8/12/2002	Non Expiring	Qualified on 08/12/2002 Qualified on 08/12/2002
F1060 Employee Safety Handbook Received	Yes	8/12/2002	Non Expiring	Qualified on 08/12/2002 Qualified on 08/12/2002
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	12/7/2009	Non Expiring	Qualified on 12/07/2009 Qualified on 12/07/2009
11000 QA Whistleblower Protection	Yes	11/16/2009	Non Expiring	Qualified on 11/16/2009 Qualified on 11/16/2009 Qualified on 06/08/2004 Qualified on 06/08/2004 Qualified on 08/05/2002 Qualified on 08/05/2002

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11005 Site Orientation	Yes	6/7/2004	Non Expirmg	Qualified on 06/07/2004
				Qualified on 06/07/2004
11020 Emergency Response & Contingency Plan	Yes	11/17/2009	Non Expirmg	Qualified on 11/17/2009
				Qualified on 11/17/2009
				Qualified on 06/08/2004
				Qualified on 06/08/2004
				Qualified on 08/07/2002
				Qualified on 08/07/2002
11030 Radiation Worker Safety	Yes	11/16/2009	Expires 11/16/2010	Qualified on 11/16/2009
				Qualified on 11/16/2009
				Qualified on 12/20/2004
				Qualified on 12/20/2004
				Qualified on 12/20/2004
				Qualified on 12/20/2004
				Qualified on 06/07/2004
				Qualified on 06/07/2004
				Qualified on 02/04/2003
				Qualified on 02/04/2003
				Qualified on 08/06/2002
				Qualified on 08/06/2002

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11050 Hazard Communication	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
				Qualified on 06/09/2004
				Qualified on 06/09/2004
				Qualified on 08/07/2002
				Qualified on 08/07/2002
11051 Advance Hazard Communication	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
				Qualified on 06/10/2004
				Qualified on 06/10/2004
1060 Hazardous Waste Management	Yes	6/10/2004	Non Expiring	Qualified on 06/10/2004
				Qualified on 06/10/2004
				Qualified on 08/08/2002
				Qualified on 08/08/2002

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11070 DOT Hazmat Employee Awareness	Yes	11/18/2009	Expires 11/17/2012	Qualified on 11/18/2009
				Qualified on 11/18/2009
				Qualified on 06/07/2005
				Qualified on 06/07/2005
				Qualified on 06/07/2005
				Qualified on 06/07/2005
				Qualified on 06/08/2004
				Qualified on 06/08/2004
				Qualified on 08/07/2002
				Qualified on 08/07/2002
11080 Personal Safety	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
				Qualified on 06/08/2004
				Qualified on 06/08/2004
				Qualified on 08/06/2002
				Qualified on 08/06/2002
11090 Respiratory Protection	Yes	11/17/2009	Non-Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
				Qualified on 06/09/2004
				Qualified on 06/09/2004
				Qualified on 08/08/2002
				Qualified on 08/08/2002

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12000 24 or 40 Hour HAZWOPER	Yes	11/19/2009	Expires 11/19/2010	Qualified on 11/19/2009 Qualified on 11/19/2009 Qualified on 06/07/2005 Qualified on 06/07/2005 Qualified on 06/10/2004 Qualified on 06/10/2004 Qualified on 08/08/2002 Qualified on 08/08/2002
12001 24 Hazwoper Final	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009 Qualified on 11/19/2009 Qualified on 06/10/2004 Qualified on 06/10/2004
12010 10 Hour RCRA Site Specific	Yes	6/10/2004	Non Expiring	Qualified on 06/10/2004 Qualified on 06/10/2004 Qualified on 08/08/2002 Qualified on 08/08/2002
M1000 Hazmat Physical	Yes	11/20/2009	Expires 11/20/2011	Qualified on 11/20/2009 Qualified on 11/20/2009 Qualified on 06/11/2004 Qualified on 06/11/2004 Qualified on 08/09/2002 Qualified on 08/09/2002

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M1010 Asbestos Physical	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009
				Qualified on 11/20/2009
				Qualified on 06/09/2005
				Qualified on 06/09/2005
				Qualified on 06/11/2004
				Qualified on 06/11/2004
				Qualified on 08/09/2002
				Qualified on 08/09/2002
M1020 Respirator Physical	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009
				Qualified on 11/20/2009
				Qualified on 06/09/2005
				Qualified on 06/09/2005
				Qualified on 06/11/2004
				Qualified on 06/11/2004
				Qualified on 08/09/2002
				Qualified on 08/09/2002
M1032 North Full Face Fit Test M/L	Yes	11/23/2009	Expires 11/23/2010	Qualified on 11/23/2009
				Qualified on 11/23/2009
				Qualified on 06/14/2004
				Qualified on 06/14/2004
				Qualified on 08/12/2002
				Qualified on 08/12/2002

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M1042 North Half Face Fit Test Med	Yes	11/23/2009	Expires 11/23/2010	Qualified on 11/23/2009
				Qualified on 11/23/2009
				Qualified on 06/14/2004
				Qualified on 06/14/2004
				Qualified on 08/12/2002
				Qualified on 08/12/2002
M1060 Audiometric Exam	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009
				Qualified on 11/20/2009
				Qualified on 06/09/2005
				Qualified on 06/09/2005
				Qualified on 06/11/2004
				Qualified on 06/11/2004
				Qualified on 08/12/2002
				Qualified on 08/12/2002
M1070 PCB Blood Test	No	11/20/2009	Non Expiring	Qualified on 11/20/2009
				Qualified on 11/20/2009
				Qualified on 06/11/2004
				Qualified on 06/11/2004
				Qualified on 08/09/2002
				Qualified on 08/09/2002
M1071 Beryllium Blood Test	Yes	5/25/2010	Expires 5/25/2011	Qualified on 05/25/2010
				Qualified on 05/25/2010

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Q1054 MW Container Management	Yes	5/5/2010	Non Expiring	Qualified on 05/05/2010 Qualified on 05/05/2010
Q1057 LLRW Decon Operator	Yes	2/18/2010	Non Expiring	Qualified on 02/18/2010 Qualified on 02/18/2010
Q1060 MW RCRA/Bat Inspector	Yes	8/19/2010	Non Expiring	Qualified on 08/19/2010 Qualified on 08/19/2010
Q1073 Leachate Collection Operator	Yes	5/5/2010	Non Expiring	Qualified on 05/05/2010 Qualified on 05/05/2010
Q1075 Vactor Truck Operator	Yes	5/5/2010	Non Expiring	Qualified on 05/05/2010 Qualified on 05/05/2010
Q1140 Lift Truck Operator	Yes	4/5/2010	Expires 4/4/2013	Qualified on 04/05/2010 Qualified on 04/05/2010
Q1150 Farm Tractor Operator	Yes	5/5/2010	Non Expiring	Qualified on 05/05/2010 Qualified on 05/05/2010
Q1156 Non CDL Tractor Truck Operator	Yes	4/16/2010	Non Expiring	Qualified on 04/16/2010 Qualified on 04/16/2010
Q1157 Trackmobile Operator	Yes	2/18/2010	Non-Expiring	Qualified on 02/18/2010 Qualified on 02/18/2010
Q1190 CS Entrant, Attendant Monitor	Yes	5/11/2010	Non Expiring	Qualified on 05/11/2010 Qualified on 05/11/2010
T1121 ES General Employee Training	Yes	11/18/2009	Non Expiring	Qualified on 11/18/2009 Qualified on 11/18/2009

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T1145 Rail Switchman Training	Yes	1/15/2010	Expires 1/15/2011	Qualified on 01/15/2010 Qualified on 01/15/2010
T1146 Railway Safety Awareness	Yes	11/16/2009	Expires 11/16/2010	Qualified on 11/16/2009 Qualified on 11/16/2009
T1160 Van Driver Training	Yes	2/3/2010	Expires 2/2/2013	Qualified on 02/03/2010 Qualified on 02/03/2010
T1231 Beryllium Training	Yes	5/5/2010	Expires 5/5/2011	Qualified on 05/05/2010 Qualified on 05/05/2010
T1235 Asbestos Training	Yes	11/18/2009	Expires 11/18/2010	Qualified on 11/18/2009 Qualified on 11/18/2009
T1240 Defensive Driver	Yes	11/18/2009	Expires 11/17/2012	Qualified on 11/18/2009 Qualified on 11/18/2009 Qualified on 08/30/2002 Qualified on 08/30/2002
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010 Qualified on 07/01/2010
T1270 Lockout/Tagout	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010 Qualified on 07/01/2010

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

Company  
Energy Solutions/Processing

Department/Position  
LARW/Operations/Equipment Operator

Badge Code  
Active/Orange

Slot Number  
D008/2107

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	1/7/2005	Non Expiring	Qualified on 01/07/2005 Qualified on 01/07/2005
F1000 SR 1 Site Regulations	Yes	1/7/2005	Non Expiring	Qualified on 01/07/2005 Qualified on 01/07/2005
F1030 Previous Exposure Questionnaire	Yes	1/3/2005	Non Expiring	Qualified on 01/03/2005 Qualified on 01/03/2005
F1060 Employee Safety Handbook Received	Yes	1/7/2005	Non Expiring	Qualified on 01/07/2005 Qualified on 01/07/2005
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	1/18/2005	Non Expiring	Qualified on 01/18/2005 Qualified on 01/18/2005
11000 QA Whistleblower Protection	Yes	1/5/2005	Non Expiring	Qualified on 01/05/2005 Qualified on 01/05/2005
11005 Site Orientation	Yes	1/3/2005	Non Expiring	Qualified on 01/03/2005 Qualified on 01/03/2005
11020 Emergency Response & Contingency Plan	Yes	1/5/2005	Non Expiring	Qualified on 01/05/2005 Qualified on 01/05/2005

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

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11030 Radiation Worker Safety	Yes	7/15/2010	Expires 7/15/2011	Qualified on 07/15/2010
				Qualified on 07/14/2009
				Qualified on 07/10/2008
				Qualified on 07/10/2008
				Qualified on 07/11/2007
				Qualified on 07/11/2007
				Qualified on 07/10/2006
				Qualified on 07/10/2006
				Qualified on 07/10/2005
				Qualified on 07/10/2005
				Qualified on 01/03/2005
				Qualified on 01/03/2005
11031 11(e)2 Operator Refresher	Yes	7/15/2010	Expires 7/15/2011	Qualified on 07/15/2010
				Qualified on 07/14/2009
				Qualified on 07/10/2008
				Qualified on 07/10/2008
				Qualified on 07/11/2007
				Qualified on 07/11/2007
				Qualified on 07/10/2006
				Qualified on 07/10/2006
				Qualified on 07/10/2005
				Qualified on 07/10/2005

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

Company  
EnergySolutions/Processmg

Department/Position  
LARW/Operations/Equipment Operator

Badge Code  
Active/Orange

Slot Number  
D008/2107

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11050 Hazard Communication	Yes	1/6/2005	Non Expirmg	Qualified on 01/06/2005
				Qualified on 01/06/2005
11051 Advance Hazard Communication	Yes	1/7/2005	Non Expirmg	Qualified on 01/07/2005
				Qualified on 01/07/2005
11060 Hazardous Waste Management	Yes	1/7/2005	Non Expiring	Qualified on 01/07/2005
				Qualified on 01/07/2005
11065 LLRW Waste Management	Yes	1/5/2005	Non Expiring	Qualified on 01/05/2005
				Qualified on 01/05/2005
11070 DOT Hazmat Employee Awareness	Yes	12/9/2009	Expires 12/8/2012	Qualified on 12/09/2009
				Qualified on 12/09/2009
				Qualified on 12/10/2008
				Qualified on 12/10/2008
				Qualified on 12/12/2007
				Qualified on 12/12/2007
				Qualified on 12/13/2006
				Qualified on 12/13/2006
				Qualified on 12/20/2005
				Qualified on 12/20/2005
				Qualified on 01/06/2005
				Qualified on 01/06/2005
11080 Personal Safety	Yes	1/6/2005	Non Expurmg	Qualified on 01/06/2005
				Qualified on 01/06/2005

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

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11090 Respiratory Protection	Yes	1/6/2005	Non Expiring	Qualified on 01/06/2005
				Qualified on 01/06/2005
12000 24 or 40 Hour HAZWOPER	Yes	12/9/2009	Expires 12/9/2010	Qualified on 12/09/2009
				Qualified on 12/09/2009
				Qualified on 12/10/2008
				Qualified on 12/10/2008
				Qualified on 12/12/2007
				Qualified on 12/12/2007
				Qualified on 12/13/2006
				Qualified on 12/13/2006
				Qualified on 12/20/2005
				Qualified on 12/20/2005
				Qualified on 01/07/2005
				Qualified on 01/07/2005
12001 24 Hazwoper Final	Yes	1/7/2005	Non Expiring	Qualified on 01/07/2005
				Qualified on 01/07/2005
12010 10 Hour RCRA Site Specific	Yes	1/7/2005	Non-Expiring	Qualified on 01/07/2005
				Qualified on 01/07/2005

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

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M1000 Hazmat Physical	Yes	12/5/2008	Expires 12/5/2010	Qualified on 12/05/2008
				Qualified on 12/05/2008
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 01/06/2005
				Qualified on 01/06/2005
M1010 Asbestos Physical	Yes	11/30/2009	Expires 11/30/2010	Qualified on 11/30/2009
				Qualified on 11/30/2009
				Qualified on 12/05/2008
				Qualified on 12/05/2008
				Qualified on 12/07/2007
				Qualified on 12/07/2007
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 12/19/2005
				Qualified on 12/19/2005
				Qualified on 01/06/2005
				Qualified on 01/06/2005

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

---

M1020 Respirator Physical	Yes	11/30/2009	Expires 11/30/2010	Qualified on 11/30/2009
				Qualified on 11/30/2009
				Qualified on 12/05/2008
				Qualified on 12/05/2008
				Qualified on 12/07/2007
				Qualified on 12/07/2007
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 12/19/2005
				Qualified on 12/19/2005
				Qualified on 01/06/2005
				Qualified on 01/06/2005
M1032 North Full Face Fit Test M/L	Yes	12/19/2006	Expired	Qualified on 12/19/2006
				Qualified on 06/15/2005
				Qualified on 06/15/2005
M1043 North Half Face Fit Test Lg	Yes	6/21/2010	Expires 6/21/2011	Qualified on 06/21/2010
				Qualified on 06/21/2010
				Qualified on 04/10/2009
				Qualified on 04/10/2009

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

Company  
EnergySolutions/Processmg

Department/Position  
LARW/Operations/Equipment Operator

Badge Code  
Active/Orange

Slot Number  
D008/2107

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M1060 Audiometric Exam	Yes	11/30/2009	Expires 11/30/2010	Qualified on 11/30/2009
				Qualified on 11/30/2009
				Qualified on 12/05/2008
				Qualified on 12/05/2008
				Qualified on 12/07/2007
				Qualified on 12/07/2007
				Qualified on 12/08/2006
				Qualified on 12/08/2006
				Qualified on 12/19/2005
				Qualified on 12/19/2005
				Qualified on 01/06/2005
				Qualified on 01/06/2005
M1070 PCB Blood Test	Yes	12/5/2008	Non Expiring	Qualified on 12/05/2008
				Qualified on 12/05/2008
				Qualified on 01/06/2005
M1071 Beryllium Blood Test	Yes	12/1/2009	Expires 12/1/2010	Qualified on 12/01/2009
				Qualified on 12/01/2009
Q1132 Quality Control Officer	No		Not Qualified	
Q1140 Lift Truck Operator	Yes	5/29/2008	Expires 5/29/2011	Qualified on 05/29/2008
				Qualified on 05/29/2008
Q1141 Extending Boom	Yes	6/19/2008	Expires 6/19/2011	Qualified on 06/19/2008
Rough Terram Lift Truck Oper				Qualified on 06/19/2008
Q1142 Loader Operator	Yes	10/18/2007	Non Expiring	Qualified on 10/18/2007
				Qualified on 10/18/2007

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

Company  
Energy Solutions/Processing

Department/Position  
LARW/Operations/Equipment Operator

Badge Code  
Active/Orange

Slot Number  
D008/2107

Q1142F Fork Equipped Loader Operator	Yes	5/29/2008	Non Expiring	Qualified on 05/29/2008 Qualified on 05/29/2008
Q1143 Articulated Truck Operator	Yes	5/1/2006	Non Expiring	Qualified on 05/01/2006 Qualified on 05/01/2006
Q1149 Dozer Operator	Yes	11/28/2005	Non Expiring	Qualified on 11/28/2005 Qualified on 11/28/2005
Q1152 Track Hoe (Excavator) Operator	Yes	10/18/2007	Non Expiring	Qualified on 10/18/2007 Qualified on 10/18/2007
Q1154 Aerial Lift Operator	Yes	7/29/2008	Non Expiring	Qualified on 07/29/2008 Qualified on 07/29/2008
Q1156 Non CDL Tractor Truck Operator	Yes	10/18/2007	Non Expiring	Qualified on 10/18/2007 Qualified on 10/18/2007
Q1158 Hyster Yardmaster Operator	Yes	10/31/2007	Non Expiring	Qualified on 10/31/2007 Qualified on 10/31/2007
T1121 ES General Employee Training	Yes	8/7/2008	Non Expiring	Qualified on 08/07/2008 Qualified on 08/07/2008
T1130 Rigging Training	Yes	1/15/2009	Non Expiring	Qualified on 01/15/2009 Qualified on 01/15/2009
T1145 Rail Switchman Training	Yes	1/15/2010	Expires 1/15/2011	Qualified on 01/15/2010 Qualified on 01/15/2010

# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

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T1146 Railway Safety Awareness	Yes	12/9/2009	Expires 12/9/2010	Qualified on 12/09/2009
				Qualified on 12/09/2009
				Qualified on 08/08/2009
				Qualified on 07/08/2009
				Qualified on 07/08/2009
				Qualified on 07/10/2008
				Qualified on 07/10/2008
				Qualified on 06/14/2007
				Qualified on 06/14/2007
				Qualified on 06/06/2006
				Qualified on 06/06/2006
				Qualified on 06/20/2005
				Qualified on 06/20/2005
T1147 Fall Protection Trainmg	Yes	3/31/2010	Expires 3/31/2011	Qualified on 03/31/2010
				Qualified on 03/31/2010
				Qualified on 04/01/2009
				Qualified on 04/01/2009
				Qualified on 04/01/2008
				Qualified on 04/01/2008
T1160 Van Driver Training	Yes	2/17/2009	Expires 2/17/2012	Qualified on 02/17/2009
				Qualified on 02/17/2009

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
Energy Solutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

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T1231 Beryllium Training	Yes	5/26/2010	Expires 5/26/2011	Qualified on 05/26/2010
				Qualified on 05/26/2010
				Qualified on 05/20/2009
				Qualified on 05/20/2009
				Qualified on 06/18/2008
				Qualified on 06/18/2008
T1235 Asbestos Trainmg	Yes	12/9/2009	Expires 12/9/2010	Qualified on 12/09/2009
				Qualified on 12/09/2009
				Qualified on 12/10/2008
				Qualified on 12/10/2008
				Qualified on 05/07/2008
				Qualified on 05/07/2008
T1240 Defensive Driver	Yes	2/3/2009	Expires 2/3/2012	Qualified on 02/03/2009
				Qualified on 02/03/2009
				Qualified on 10/07/2005
				Qualified on 10/07/2005
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 08/20/2010
				Qualified on 08/20/2009
				Qualified on 08/20/2009
				Qualified on 07/02/2008
				Qualified on 07/02/2008

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# Employee Training Record

9/28/2010

**Riddle, Kevin R**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Equipment Operator

**Badge Code**  
Active/Orange

**Slot Number**  
D008/2107

---

T1270 Lockout/Tagout	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/02/2008
				Qualified on 07/02/2008

# Employee Training Record

9/28/2010

**Thompson, Kenneth**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Container Repair

Badge Code  
Active/Orange

Slot Number  
2567/D027

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009 Qualified on 11/19/2009
F1000 SR 1 Site Regulations	Yes	11/23/2009	Non Expiring	Qualified on 11/23/2009 Qualified on 11/23/2009
F1030 Previous Exposure Questionnaire	Yes	11/23/2009	Non Expiring	Qualified on 11/23/2009 Qualified on 11/23/2009
F1060 Employee Safety Handbook Received	Yes	11/23/2009	Non Expiring	Qualified on 11/23/2009 Qualified on 11/23/2009
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	12/7/2009	Non-Expiring	Qualified on 12/07/2009 Qualified on 12/07/2009
11000 QA Whistleblower Protection	Yes	11/16/2009	Non Expiring	Qualified on 11/16/2009 Qualified on 11/16/2009
11005 Site Orientation	Yes	11/16/2009	Non Expiring	Qualified on 11/16/2009 Qualified on 11/16/2009
11010 Environmental Safety and Compliance	Yes	11/17/2009	Non-Expiring	Qualified on 11/17/2009 Qualified on 11/17/2009
11020 Emergency Response & Contingency Plan	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009 Qualified on 11/17/2009
11030 Radiation Worker Safety	Yes	11/16/2009	Expires 11/16/2010	Qualified on 11/16/2009 Qualified on 11/16/2009
11040 Air Quality Approval Order	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009 Qualified on 11/19/2009

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# Employee Training Record

9/28/2010

**Thompson, Kenneth**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Container Repair

Badge Code  
Active/Orange

Slot Number  
2567/D027

11050 Hazard Communication	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
11051 Advance Hazard Communication	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
11060 Hazardous Waste Management	Yes	11/19/2009	Non-Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
11065 LLRW Waste Management	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
11070 DOT Hazmat Employee Awareness	Yes	11/19/2009	Expires 11/18/2012	Qualified on 11/19/2009
				Qualified on 11/19/2009
11080 Personal Safety	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
11090 Respiratory Protection	Yes	11/17/2009	Non Expiring	Qualified on 11/17/2009
				Qualified on 11/17/2009
12000 24 or 40 Hour HAZWOPER	Yes	11/19/2009	Expires 11/19/2010	Qualified on 11/19/2009
				Qualified on 11/19/2009
12001 24 Hazwoper Final	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
12010 10 Hour RCRA Site Specific	Yes	11/19/2009	Non Expiring	Qualified on 11/19/2009
				Qualified on 11/19/2009
M1000 Hazmat Physical	Yes	11/20/2009	Expires 11/20/2011	Qualified on 11/20/2009
				Qualified on 11/20/2009

# Employee Training Record

9/28/2010

**Thompson, Kenneth**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Container Repair

Badge Code  
Active/Orange

Slot Number  
2567/D027

M1010 Asbestos Physical	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009 Qualified on 11/20/2009
M1020 Respirator Physical	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009 Qualified on 11/20/2009
M1032 North Full Face Fit Test M/L	Yes	11/23/2009	Expires 11/23/2010	Qualified on 11/23/2009 Qualified on 11/23/2009
M1042 North Half Face Fit Test Med	Yes	11/23/2009	Expires 11/23/2010	Qualified on 11/23/2009 Qualified on 11/23/2009
M1060 Audiometric Exam	Yes	11/20/2009	Expires 11/20/2010	Qualified on 11/20/2009 Qualified on 11/20/2009
M1070 PCB Blood Test	No	11/20/2009	Non Expiring	Qualified on 11/20/2009 Qualified on 11/20/2009
Q1057 LLRW Decon Operator	Yes	6/1/2010	Non Expiring	Qualified on 06/01/2010 Qualified on 06/01/2010
Q1140 Lift Truck Operator	Yes	2/18/2010	Expires 2/17/2013	Qualified on 02/18/2010 Qualified on 02/18/2010
Q1141 Extending Boom Rough Terrain Lift Truck Oper	Yes	6/1/2010	Expires 5/31/2013	Qualified on 06/01/2010 Qualified on 06/01/2010
Q1190 CS Entrant Attendant Monitor	Yes	6/17/2010	Non Expiring	Qualified on 06/17/2010 Qualified on 06/17/2010
T1121 ES General Employee Training	Yes	11/18/2009	Non Expiring	Qualified on 11/18/2009 Qualified on 11/18/2009

# Employee Training Record

9/28/2010

**Thompson, Kenneth**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Container Repair

**Badge Code**  
Active/Orange

**Slot Number**  
2567/D027

---

T1146 Railway Safety Awareness	Yes	11/16/2009	Expires 11/16/2010	Qualified on 11/16/2009 Qualified on 11/16/2009
T1160 Van Driver Trainmg	Yes	2/3/2010	Expires 2/2/2013	Qualified on 02/03/2010 Qualified on 02/03/2010
T1235 Asbestos Trainmg	Yes	11/18/2009	Expires 11/18/2010	Qualified on 11/18/2009 Qualified on 11/18/2009
T1240 Defensive Driver	Yes	11/18/2009	Expires 11/17/2012	Qualified on 11/18/2009 Qualified on 11/18/2009
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010 Qualified on 07/01/2010

# Employee Training Record

9/28/2010

**Rubio, Cameron**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Decon Attendant

Badge Code  
Active/Orange

Slot Number  
2586/D047

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
F1000 SR 1 Site Regulations	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1030 Previous Exposure Questionnaire	Yes	6/14/2010	Non-Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1060 Employee Safety Handbook Received	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	6/25/2010	Non Expiring	Qualified on 06/25/2010 Qualified on 06/25/2010
11000 QA Whistleblower Protection	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
11005 Site Orientation	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
11010 Environmental Safety and Compliance	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11020 Emergency Response & Contingency Plan	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11030 Radiation Worker Safety	Yes	6/7/2010	Expires 6/7/2011	Qualified on 06/07/2010 Qualified on 06/07/2010
11040 Air Quality Approval Order	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010

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# Employee Training Record

9/28/2010

**Rubio, Cameron**

Company  
EnergySolutions/Processmg

Department/Position  
LARW/Operations/Decon Attendant

Badge Code  
Active/Orange

Slot Number  
2586/D047

11050 Hazard Communication	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010
11051 Advance Hazard Communication	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010
11060 Hazardous Waste Management	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
11065 LLRW Waste Management	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Quahfied on 06/09/2010
11070 DOT Hazmat Employee Awareness	Yes	6/8/2010	Expires 6/7/2013	Qualified on 06/08/2010 Qualified on 06/08/2010
11080 Personal Safety	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11090 Respiratory Protection	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
12000 24 or 40 Hour HAZWOPER	Yes	6/10/2010	Expires 6/10/2011	Qualified on 06/10/2010 Qualified on 06/10/2010
12001 24 Hazwoper Fmal	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
12010 10 Hour RCRA Site Specific	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
M1000 Hazmat Physical	Yes	6/11/2010	Expires 6/10/2012	Qualified on 06/11/2010 Qualified on 06/11/2010

# Employee Training Record

9/28/2010

**Rubio, Cameron**

Company  
EnergySolutions/Processmg

Department/Position  
LARW/Operations/Decon Attendant

Badge Code  
Active/Orange

Slot Number  
2586/D047

M1010 Asbestos Physical	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1020 Respirator Physical	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1031 North Full Face Fit Test Small	Yes	6/14/2010	Expires 6/14/2011	Qualified on 06/14/2010 Qualified on 06/14/2010
M1041 North Half Face Fit Test Small	Yes	6/14/2010	Expires 6/14/2011	Qualified on 06/14/2010 Qualified on 06/14/2010
M1060 Audiometric Exam	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1070 PCB Blood Test	No	6/4/2010	Non Expiring	Qualified on 06/04/2010 Qualified on 06/04/2010
M1071 Beryllium Blood Test	Yes	6/25/2010	Expires 6/25/2011	Qualified on 06/25/2010 Qualified on 06/25/2010
Q1057 LLRW Decon Operator	Yes	7/16/2010	Non Expiring	Qualified on 07/16/2010 Qualified on 07/16/2010
Q1156 Non CDL Tractor Truck Operator	Yes	9/17/2010	Non Expiring	Qualified on 09/17/2010 Qualified on 09/17/2010
T1121 ES General Employee Training	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
T1146 Railway Safety Awareness	Yes	6/9/2010	Expires 6/9/2011	Qualified on 06/09/2010 Qualified on 06/09/2010



# Employee Training Record

9/28/2010

**Rubio, Cameron**

**Company**  
Energy Solutions/Processing

**Department/Position**  
LARW/Operations/Decon Attendant

**Badge Code**  
Active/Orange

**Slot Number**  
2586/D047

T1231 Beryllium Training	Yes	6/23/2010	Expires 6/23/2011	Qualified on 06/23/2010 Qualified on 06/23/2010
T1235 Asbestos Training	Yes	6/9/2010	Expires 6/9/2011	Qualified on 06/09/2010 Qualified on 06/09/2010
T1240 Defensive Driver	Yes	9/17/2010	Expires 9/16/2013	Qualified on 09/17/2010 Qualified on 09/17/2010
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010 Qualified on 07/01/2010

# Employee Training Record

9/28/2010

**Leyva, Beau**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Decon Summer Hire

Badge Code  
Active/Orange

Slot Number  
2584/D046

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1000 SR 1 Site Regulations	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1030 Previous Exposure Questionnaire	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1060 Employee Safety Handbook Received	Yes	6/14/2010	Non Expiring	Qualified on 06/14/2010 Qualified on 06/14/2010
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	6/25/2010	Non Expiring	Qualified on 06/25/2010 Qualified on 06/25/2010
11000 QA-Whistleblower Protection	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
11005 Site Orientation	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
11010 Environmental Safety and Compliance	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11020 Emergency Response & Contingency Plan	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11030 Radiation Worker Safety	Yes	6/7/2010	Expires 6/7/2011	Qualified on 06/07/2010 Qualified on 06/07/2010
11040 Air Quality Approval Order	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010

**COPY**

# Employee Training Record

9/28/2010

Leyva, Beau

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Decon Summer Hire

Badge Code  
Active/Orange

Slot Number  
2584/D046

11050 Hazard Communication	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010
11051 Advance Hazard Communication	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010
11060 Hazardous Waste Management	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
11065 LLRW Waste Management	Yes	6/9/2010	Non Expiring	Qualified on 06/09/2010 Qualified on 06/09/2010
11070 DOT Hazmat Employee Awareness	Yes	6/8/2010	Expires 6/7/2013	Qualified on 06/08/2010 Qualified on 06/08/2010
11080 Personal Safety	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
11090 Respiratory Protection	Yes	6/8/2010	Non Expiring	Qualified on 06/08/2010 Qualified on 06/08/2010
12000 24 or 40 Hour HAZWOPER	Yes	6/10/2010	Expires 6/10/2011	Qualified on 06/10/2010 Qualified on 06/10/2010
12001 24 Hazwoper Final	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
12010 10 Hour RCRA Site Specific	Yes	6/10/2010	Non Expiring	Qualified on 06/10/2010 Qualified on 06/10/2010
M1000 Hazmat Physical	Yes	6/11/2010	Expires 6/10/2012	Qualified on 06/11/2010 Qualified on 06/11/2010

# Employee Training Record

9/28/2010

**Leyva, Beau**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Decon Summer Hire

Badge Code  
Active/Orange

Slot Number  
2584/D046

M1010 Asbestos Physical	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1020 Respirator Physical	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1031 North Full Face Fit Test Small	Yes	6/14/2010	Expires 6/14/2011	Qualified on 06/14/2010 Qualified on 06/14/2010
M1041 North Half Face Fit Test Small	Yes	6/14/2010	Expires 6/14/2011	Qualified on 06/14/2010 Qualified on 06/14/2010
M1060 Audiometric Exam	Yes	6/11/2010	Expires 6/11/2011	Qualified on 06/11/2010 Qualified on 06/11/2010
M1070 PCB Blood Test	No	6/11/2010	Non Expiring	Qualified on 06/11/2010 Qualified on 06/11/2010
M1071 Beryllium Blood Test	Yes	6/25/2010	Expires 6/25/2011	Qualified on 06/25/2010 Qualified on 06/25/2010
Q1057 LLRW Decon Operator	Yes	7/16/2010	Non Expiring	Qualified on 07/16/2010 Qualified on 07/16/2010
Q1156 Non CDL Tractor Truck Operator	Yes	9/17/2010	Non Expiring	Qualified on 09/17/2010 Qualified on 09/17/2010
T1121 ES General Employee Training	Yes	6/7/2010	Non Expiring	Qualified on 06/07/2010 Qualified on 06/07/2010
T1146 Railway Safety Awareness	Yes	6/9/2010	Expires 6/9/2011	Qualified on 06/09/2010 Qualified on 06/09/2010

# Employee Training Record

9/28/2010

**Leyva, Beau**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Decon Summer Hire

**Badge Code**  
Active/Orange

**Slot Number**  
2584/D046

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T1231 Beryllium Training	Yes	6/23/2010	Expires 6/23/2011	Qualified on 06/23/2010
				Qualified on 06/23/2010
T1235 Asbestos Training	Yes	6/9/2010	Expires 6/9/2011	Qualified on 06/09/2010
				Qualified on 06/09/2010
T1240 Defensive Driver	Yes	9/17/2010	Expires 9/16/2013	Qualified on 09/17/2010
				Qualified on 09/17/2010

# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Facility Operator II

Badge Code  
Active/Orange

Slot Number  
D036/2440

Type of Training	Required For Duty	Date Qualified	Status	Notes
B1050 Bioassay	Yes	4/7/2010	Non-Expiring	Qualified on 04/07/2010 Qualified on 04/07/2010 Exit WBC on 06/26/2007 Qualified on 06/27/2006 Qualified on 06/27/2006
F1000 SR 1 Site Regulations	Yes	6/28/2006	Non Expiring	Qualified on 06/28/2006
F1030 Previous Exposure Questionnaire	Yes	6/26/2006	Non Expiring	Qualified on 06/26/2006 Qualified on 06/26/2006
F1060 Employee Safety Handbook Received	Yes	6/28/2006	Non Expiring	Qualified on 06/28/2006
F1100 New/Transfer Employee Safety OJT (COMP)	Yes	9/9/2008	Non Expiring	Qualified on 09/09/2008 Qualified on 09/09/2008
11000 QA-Whistleblower Protection	Yes	8/18/2008	Non Expiring	Qualified on 08/18/2008 Qualified on 08/18/2008 Qualified on 06/26/2006
11005 Site Orientation	Yes	8/18/2008	Non Expiring	Qualified on 08/18/2008 Qualified on 08/18/2008 Qualified on 06/26/2006
11010 Environmental Safety and Compliance	Yes	8/19/2008	Non Expiring	Qualified on 08/19/2008 Qualified on 08/19/2008
11020 Emergency Response & Contingency Plan	Yes	8/19/2008	Non Expiring	Qualified on 08/19/2008 Qualified on 08/19/2008 Qualified on 06/26/2006

**COPY**

# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Facility Operator II

**Badge Code**  
Active/Orange

**Slot Number**  
D036/2440

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11030 Radiation Worker Safety	Yes	8/5/2010	Expires 8/5/2011	Qualified on 08/05/2010
				Qualified on 08/05/2010
				Qualified on 08/13/2009
				Qualified on 08/18/2008
				Qualified on 08/18/2008
				Qualified on 06/26/2006
				Qualified on 06/26/2006
11040 Air Quality Approval Order	Yes	8/20/2008	Non Expiring	Qualified on 08/20/2008
				Qualified on 08/20/2008
11050 Hazard Communication	Yes	8/19/2008	Non Expiring	Qualified on 08/19/2008
				Qualified on 08/19/2008
				Qualified on 06/27/2006
11051 Advance Hazard Communication	Yes	8/20/2008	Non Expiring	Qualified on 08/20/2008
				Qualified on 08/20/2008
11060 Hazardous Waste Management	Yes	8/20/2008	Non Expiring	Qualified on 08/20/2008
				Qualified on 08/20/2008
11065 LLRW Waste Management	Yes	8/19/2008	Non Expiring	Qualified on 08/19/2008
				Qualified on 08/19/2008
				Qualified on 06/27/2006

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

**Company**  
EnergySolutions/Processmg

**Department/Position**  
LARW/Operations/Facility Operator II

**Badge Code**  
Active/Orange

**Slot Number**  
D036/2440

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11070 DOT Hazmat Employee Awareness	Yes	8/5/2010	Expires 8/4/2013	Qualified on 08/05/2010 Qualified on 08/05/2010 Qualified on 08/25/2009 Qualified on 08/25/2009 Qualified on 08/20/2008 Qualified on 08/20/2008 Qualified on 06/26/2006 Qualified on 06/26/2006
11080 Personal Safety	Yes	8/20/2008	Non-Expiring	Qualified on 08/20/2008 Qualified on 08/20/2008 Qualified on 06/27/2008 Qualified on 06/27/2006
11090 Respiratory Protection	Yes	8/22/2008	Non Expiring	Qualified on 08/22/2008 Qualified on 08/22/2008 Qualified on 06/27/2006
12000 24 or 40 Hour HAZWOPER	Yes	8/5/2010	Expires 8/5/2011	Qualified on 08/05/2010 Qualified on 08/05/2010 Qualified on 08/25/2009 Qualified on 08/25/2009 Qualified on 08/26/2008 Qualified on 08/26/2008
12001 24 Hazwoper Final	Yes	8/26/2008	Non Expiring	Qualified on 08/26/2008 Qualified on 08/26/2008

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Facility Operator II

**Badge Code**  
Active/Orange

**Slot Number**  
D036/2440

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M1000 Hazmat Physical	Yes	8/9/2010	Expires 8/8/2012	Qualified on 08/09/2010
				Qualified on 08/09/2010
				Qualified on 08/25/2008
				Qualified on 08/25/2008
M1010 Asbestos Physical	Yes	8/9/2010	Expires 8/9/2011	Qualified on 08/09/2010
				Qualified on 08/09/2010
				Qualified on 08/11/2009
				Qualified on 08/11/2009
				Qualified on 08/25/2008
				Qualified on 08/25/2008
				Qualified on 06/29/2006
				Qualified on 06/29/2006
M1020 Respirator Physical	Yes	8/9/2010	Expires 8/9/2011	Qualified on 08/09/2010
				Qualified on 08/09/2010
				Qualified on 08/11/2009
				Qualified on 08/11/2009
				Qualified on 08/25/2008
				Qualified on 08/25/2008
				Qualified on 06/29/2006
				Qualified on 06/29/2006

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Facility Operator II

**Badge Code**  
Active/Orange

**Slot Number**  
D036/2440

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M1032 North Full Face Fit Test M/L	Yes	8/10/2010	Expires 8/10/2011	Qualified on 08/10/2010
				Qualified on 08/10/2010
				Qualified on 08/12/2009
				Qualified on 08/12/2009
				Qualified on 08/26/2008
				Qualified on 08/26/2008
				Qualified on 06/30/2006
				Qualified on 06/30/2006
M1042 North Half Face Fit Test Med	Yes	8/10/2010	Expires 8/10/2011	Qualified on 08/10/2010
				Qualified on 08/10/2010
				Qualified on 08/12/2009
				Qualified on 08/12/2009
				Qualified on 08/26/2008
				Qualified on 08/26/2008
				Qualified on 06/30/2006
				Qualified on 06/30/2006
M1048 Survival SCBA	Yes	8/10/2010	Expires 8/10/2011	Qualified on 08/10/2010
				Qualified on 08/10/2010

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Facility Operator II

Badge Code  
Active/Orange

Slot Number  
D036/2440

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M1060 Audiometric Exam	Yes	8/9/2010	Expires 8/9/2011	Qualified on 08/09/2010
				Qualified on 08/09/2010
				Qualified on 08/11/2009
				Qualified on 08/11/2009
				Qualified on 08/25/2008
				Qualified on 08/25/2008
				Qualified on 06/29/2006
				Qualified on 06/29/2006
M1070 PCB Blood Test	No	8/9/2010	Non Expiring	Qualified on 08/09/2010
				Qualified on 08/09/2010
				Qualified on 08/25/2008
				Qualified on 08/25/2008
M1071 Beryllium Blood Test	Yes	8/10/2010	Expires 8/10/2011	Qualified on 08/10/2010
				Qualified on 08/10/2010
				Qualified on 03/10/2010
				Qualified on 03/10/2010
Q1054 MW Contamer Management	Yes	6/17/2010	Non Expiring	Qualified on 06/17/2010
				Qualified on 06/17/2010
Q1056A Mixed Waste Decontamination Operator	Yes	5/12/2009	Non Expiring	Qualified on 05/12/2009
				Qualified on 05/12/2009
Q1057 LLRW Decon Operator	Yes	10/20/2008	Non Expiring	Qualified on 10/20/2008
				Qualified on 10/20/2008

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Facility Operator II

Badge Code  
Active/Orange

Slot Number  
D036/2440

Q1057A Decon Operator II	Yes	5/12/2009	Non-Expiring	Qualified on 05/12/2009
				Qualified on 05/12/2009
Q1057B Decon Operator III	Yes	10/16/2009	Non Expiring	Qualified on 10/16/2009
				Qualified on 10/16/2009
Q1062 MW Baghouse Operator	Yes	6/17/2010	Non Expiring	Qualified on 06/17/2010
				Qualified on 06/17/2010
Q1064 MW Primary Shredder Operator	Yes	9/10/2010	Non Expiring	Qualified on 09/10/2010
				Qualified on 09/10/2010
Q1065 MW Tertiary Shredder Operator	Yes	9/10/2010	Non Expiring	Qualified on 09/10/2010
				Qualified on 09/10/2010
Q1140 Lift Truck Operator	Yes	10/9/2009	Expires 10/8/2012	Qualified on 10/09/2009
				Qualified on 10/09/2009
				Qualified on 08/24/2006
				Qualified on 08/24/2006
Q1141 Extending Boom Rough Terrain Lift Truck Oper	Yes	10/9/2009	Expires 10/8/2012	Qualified on 10/09/2009
				Qualified on 10/09/2009
				Qualified on 03/12/2009
				Qualified on 03/12/2009
Q1142F Fork Equipped Loader Operator	Yes	1/15/2010	Non Expiring	Qualified on 01/15/2010
				Qualified on 01/15/2010
Q1144 Cement Truck Operator	Yes	4/5/2010	Non Expiring	Qualified on 04/05/2010
				Qualified on 04/05/2010

# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Facility Operator II

Badge Code  
Active/Orange

Slot Number  
D036/2440

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Q1156 Non CDL Tractor Truck Operator	Yes	2/6/2009	Non Expirmg	Qualified on 02/06/2009  Qualified on 02/06/2009
Q1157 Trackmobile Operator	Yes	8/16/2006	Non Expiring	Qualified on 08/16/2006  Qualified on 08/16/2006
Q1190 CS Entrant Attendant Monitor	Yes	8/27/2010	Non Expiring	Qualified on 08/27/2010  Qualified on 08/27/2010
T1121 ES General Employee Training	Yes	8/19/2008	Non Expiring	Qualified on 08/19/2008  Qualified on 08/19/2008
T1145 Rail Switchman Training	Yes	1/15/2010	Expires 1/15/2011	Qualified on 01/15/2010  Qualified on 01/15/2010
T1146 Railway Safety Awareness	Yes	8/5/2010	Expires 8/5/2011	Qualified on 08/05/2010  Qualified on 08/05/2010  Qualified on 08/18/2009  Qualified on 08/18/2009  Qualified on 08/22/2008  Qualified on 08/22/2008  Qualified on 07/06/2006  Qualified on 07/06/2006
T1147 Fall Protection Trainmg	Yes	8/13/2010	Expires 8/13/2011	Qualified on 08/13/2010  Qualified on 08/13/2010
T1160 Van Driver Training	Yes	6/2/2009	Expires 6/1/2012	Qualified on 06/02/2009  Qualified on 06/02/2009

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# Employee Training Record

9/29/2010

**Medrano, Jeffrey L**

Company  
EnergySolutions/Processing

Department/Position  
LARW/Operations/Facility Operator II

Badge Code  
Active/Orange

Slot Number  
D036/2440

---

T1231 Beryllium Training	Yes	5/5/2010	Expires 5/5/2011	Qualified on 05/05/10
				Qualified on 03/08/2010
				Qualified on 03/08/2010
T1235 Asbestos Traming	Yes	8/5/2010	Expires 8/5/2011	Qualified on 08/05/2010
				Qualified on 08/05/2010
				Qualified on 08/25/2009
				Qualified on 08/25/2009
				Qualified on 08/26/2008
				Qualified on 08/26/2008
				Qualified on 08/22/2008
				Qualified on 08/22/2008
T1240 Defensive Driver	Yes	8/22/2008	Expires 8/22/2011	Qualified on 08/22/2008
				Qualified on 08/22/2008
				Qualified on 07/17/2006
				Qualified on 07/17/2006
T1260 Lead Worker	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 07/01/2009
				Qualified on 07/01/2009
				Qualified on 08/22/2008
				Qualified on 08/22/2008

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# Employee Trainmg Record

9/29/2010

**Medrano, Jeffrey L**

**Company**  
EnergySolutions/Processing

**Department/Position**  
LARW/Operations/Facility Operator II

**Badge Code**  
Active/Orange

**Slot Number**  
D036/2440

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T1270 Lockout/Tagout	Yes	7/1/2010	Expires 7/1/2011	Qualified on 07/01/2010
				Qualified on 07/01/2010
				Qualified on 06/02/2009
				Qualified on 06/02/2009

## TRAINING OUTLINE

<p>Training Subject Hazwoper Refresher Rev 14</p>
<p>Training Date(s) N/A</p>
<p>Name of person completing outline Kelly Lewis</p>
<p>Why was training conducted? Employee Safety Procedural Requirement</p>
<p>Please provide an outline of topics discussed Personnel Safety Hazard Communication, labeling and MSDS's Respiratory protection, respirator use, filters used, limitations of respirators Hearing protection, use of hearing protection devices and the effects of noise on hearing Emergency response, how to initiate emergency response, evacuation routes routine and non-routine, Safe Site Shut down Site Radiological Security Plan Air Approval Order DOT placarding and awareness Hazardous Waste Management Asbestos Awareness Railway Safety Awareness</p>
<p>Were "hands-on" activities or demonstrations performed or provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Practice of initiating emergency response plan and review of MSDS's finding and comprehending language used in MSDS's</p>
<p>Were overheads, slides, or handout materials used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe PowerPoint Presentation</p>
<p>Was a test given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Multiple Choice/True-False with short answer Exam</p>
<p>Were any procedures, regulations or other written materials referenced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Site Radiological Security Plan, Air Approval Order, Contingency/Emergency Response Plan, 29 CFR 1910 ladders, confined space, respirators, hearing conservation CL-SH-PR-052 Safe Rail Operations</p>



## TRAINING OUTLINE

Training Subject Asbestos Awareness Exam and Key, Rev 0
Training Date(s) Na
Name of person completing outline Alaina Moss
Why was training conducted? NA
Please provide an outline of topics discussed Asbestos Awareness -Types of Asbestos -Characteristics -ACM -Where asbestos is being used -Definition of friable and non-friable -Exposure Routes -Asbestos Related Diseases -Controlling asbestos exposure -PPR requirements -How to abate asbestos
Were "hands-on" activities or demonstrations performed or provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe
Were overheads, slides, or handout materials used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe 28 slides of a Powerpoint Presentation
Was a test given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe 10 questions
Were any procedures, regulations or other written materials referenced? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe

## TRAINING OUTLINE

Training Subject Radiation Worker Safety Refresher -CBT Rev 7
Training Date(s) N/A
Name of person completing outline Alaina Moss
Why was training conducted? Employee Safety Procedural Requirement
Please provide an outline of topics discussed Rad Refresher Course Section 1-Fundamental Radiological Concepts Section 2-Sources of Radiation Section 3-Biological Effects of Radiation Section 4-Federal Dose Limits and Administrative Control Levels Section 5-ALARA Section 6-Internal and External Exposure Monitoring Section 7-Contamination Control Section 8-Radiation Work Permits Section 9-Radiological Postings and Controls Section 10-Site Radiological Security Plan
Were "hands-on" activities or demonstrations performed or provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe
Were overheads, slides, or handout materials used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Computer Based Training- See Attached
Was a test given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe A Final exam which covers the reviewed material in the refresher presentation
Were any procedures, regulations or other written materials referenced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Rad Worker Safety Manual, Site Radiological Security Plan





Safety and Health Department

FILE  
CD08-0125

April 21, 2008

COPY CD08-0125

John Gollaher, Chief  
North Tooele County Fire District  
179 Country Club  
Stansbury Park, Utah  
801-250-0162

Re Emergency Response Arrangements with Local Authorities (UAC R313-8.3 7)

Dear Mr Gollaher

Every 36 months, EnergySolutions, must invite the Tooele County Fire Department to tour our Chive Facility, or arrange for myself to visit with the Fire Department to familiarize the Fire Department with the Chive Facility's layout, associated hazards, properties of hazardous waste handled at the Chive Facility, places where facility personnel would normally be working, entrances to and roads inside the Chive Facility and possible evacuation routes. This information would be used, if needed in the future, to support emergency response activities at our facility.

As the Safety & Health Manager for EnergySolutions, I would like to extend this offer to the Tooele County Fire Department. Also, in accordance with the above cited regulation, I am requesting a formal response to this letter in order to document closure of this request.

Please call me at 1-801-649-2083 to schedule a visit or with any questions or concerns

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Zake T. Wilnot", followed by the date "4-21-08".

D. Zake T. Wilnot, CHMM, CSP

Safety & Health Manager



FILE  
LIBRARY  
Safety and Health Department

May 9, 2008

COPY CD08- 0147

Jeff Coombs, Environmental Health Director  
Tooele County Health Department  
151 North Main  
Tooele, Utah 84074  
435-277-2440

Re Emergency Response Arrangements with Local Authorities (UAC R313-8 3 7)

Dear Mr Coombs

Every 36 months, EnergySolutions, must arrange a visit with the Tooele County Health Department regarding emergency response and coordination with respect to our Chive Facility. This information would be used, if needed in the future, to support emergency response activities.

As the Safety & Health Manager for EnergySolutions, I would like to extend this offer to the Tooele County Health Department. Also, in accordance with the above cited regulation, I am requesting a formal response to this letter in order to document closure of this request.

Please call me at 1-801-649-2083 to schedule a visit or with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "D Zeke T Wihnot". To the right of the signature is the date "5-9-08".

D Zeke T Wihnot, CHMM, CSP

Safety & Health Manager

FILE  
CLERK LIBRARY



Safety and Health Department

April 21, 2008

COPY

CD08-126

Harry Shmton  
Tooele County Sheriff's Office  
47 South Main St  
Tooele, Utah 84074  
435-241-3765

Re: Emergency Response Arrangements with Local Authorities (UAC R313-8.3 7)

Dear Mr Shmtoo.

Every 36 months, EnergySolutions, must invite the Tooele County Sheriff's Office to tour our Clive Facility, or arrange for myself to visit with the Sheriff's Office to familiarize the Sheriff's Office with the Clive Facility's layout, associated hazards, properties of hazardous waste handled at the Clive Facility, places where facility personnel would normally be working, entrances to and roads inside the Clive Facility and possible evacuation routes. This information would be used, if needed in the future, to support emergency response activities at our facility.

As the Safety & Health Manager for EnergySolutions, I would like to extend this offer to the Tooele County Sheriff's Office. Also, in accordance with the above cited regulation, I am requesting a formal response to this letter in order to document closure of this request.

Please call me at 1-801-649-2083 to schedule a visit or with any questions or concerns.

Sincerely,

A handwritten signature in cursive script, reading "D Zeke T Wilmot", followed by the date "4-21-08".

D Zeke T Wilmot, CHMM, CSP

Safety & Health Manager



Safety and Health Department

FILE

COPY LIBRARY

May 9, 2008

COPY

CD08- 0148

Harry Shmton  
Tooele County LEPC Chairman  
47 Soath Mahi St.  
Tooele, Utah 84074  
435-241-3765

Re Emergency Response Arrangements with Local Authorities (UAC R313-8.3 7)

Dear Mr Shmton

As the Safety & Health Manager for EnergySolutions, I would like to formally extend the invitation the Tooele County LEPC to tour the Chve Facility. The purpose of this visit would be to familiarize the LEPC with the Chve Facility's layout, properties of hazardous waste handled at the Chve Facility and associated hazards and to support emergency response activities at our facility.

If possible, we would like this to extend this invitation at the next Tooele County LEPC meeting. Alternatively, please call me at 1-801-649-2083 to schedule a visit or with any questions or concerns.

Sincerely,

*D Zeke T Wilmot 5-9-08*

D Zeke T Wilmot, CHMM, CSP

Safety & Health Manager

Attachment 6



## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

COPY

Contract No	WS No	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
042ID	04	0050	M11407	09/07/2010	09/13/2010	null	09/16/2010	null	T	U80651		DRM	Y		Y	Mixed Waste	MIXED	42	26 248 00	13 12	315 00	11 67
042IF	19	0051	M11316	07/13/2010	07/16/2010	07/14/2010	09/09/2010	09/09/2010	T	7810060		BOX	Y		Y	Mixed Waste/Treatment	MIXED	3	4 198 00	2 10	144 00	5 33
042IF	19	0052	M11427	09/20/2010	09/22/2010	null	09/20/2010	null	T	3830136		BOX	Y	Y	Y	Mixed Waste/Treatment	MIXED	2	4 802 00	2 40	192 00	7 11
042IF	20	0042	M11428	09/20/2010	09/21/2010	null	09/22/2010	null	T	3830136		BOX	Y		Y	Mixed Waste/Treatment	MIXED	1	3 503 00	1 75	96 00	3 56
0507C	19	0048	M11345	08/02/2010	08/05/2010	08/02/2010	09/16/2010	09/16/2010	IT	848004		CVAN	N			Mixed Waste/Treatment	MIXED	1	11 120 00	5 56	1 171 00	43 37
0507C	23	0001	TS00016	08/19/2010	09/09/2010	null	08/26/2010	null	T			DRM	Y		Y	Mixed Waste/Treatment	MIXED	1	70 00	0 04	0 70	0 03
0612	01	0001	M11327	07/23/2010	07/28/2010	07/23/2010	07/30/2010	null	T	U31186		DRM	N			Mixed Waste/Treatment	MIXED	3	1 500 00	0 75	22 50	0 83
0613	01	0001	M11438	09/27/2010	null	null	09/27/2010	null	T	U49160		DRM	N			Mixed Waste/Treatment	MIXED	4	1 587 00	0 79	16 00	0 59
0817	04	0005	M11362	08/20/2010	08/25/2010	08/20/2010	09/21/2010	09/21/2010	T	R17721		BOX				Mixed Waste/Treatment	MIXED	3	13 660 00	6 83	68 80	2 55
0856	20	0179	M11402	09/07/2010	09/13/2010	null	09/21/2010	09/21/2010	T	686492		DRM	Y		Y	Mixed Waste/Treatment	MIXED	1	145 00	0 07	4 10	0 15
0856	20	0180	M11314	07/06/2010	07/09/2010	07/07/2010	08/30/2010	08/30/2010	T	U37583		DRM	N			Mixed Waste/Treatment	MIXED	1	394 00	0 20	7 50	0 28
0856	20	0181	M11337	07/30/2010	08/03/2010	07/30/2010	08/30/2010	08/30/2010	T	U38065		BOX DRM	Y		Y	Mixed Waste/Treatment	MIXED	4	1 601 00	0 75	69 70	2 58
0856	20	0182	M11355	08/16/2010	08/19/2010	08/16/2010	08/30/2010	08/30/2010	T	U37583		BOX DRM	Y		Y	Mixed Waste/Treatment	MIXED	6	4 563 00	2 28	89 30	3 31
0856	20	0183	M11381	08/24/2010	08/27/2010	08/24/2010	09/07/2010	09/07/2010	T	Q54697		BOX	N			Mixed Waste/Treatment	MIXED	1	4 955 00	2 43	47 20	1 75

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S B	M O B	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
0856	20	0184	M11403	09/07/2010	09/13/2010	null	09/13/2010	null	T	686492		DRM	N				Mixed Waste/Treatment	MIXED	1	27 00	0 01	0 68	0 03
0856	20	0185	M11401	09/07/2010	09/13/2010	null	09/13/2010	null	T	686492		BOX DRM	Y		Y		Mixed Waste/Treatment	MIXED	6	2 168 00	1 08	77 88	2 88
0856	21	0004	M11338	07/30/2010	08/03/2010	07/30/2010	08/02/2010	null	T	U38065		BOX	Y				Mixed Waste/Treatment	MIXED	4	30 050 00	15 02	379 20	14 04
0856	21	0005	M11354	08/16/2010	08/19/2010	08/16/2010	08/24/2010	null	T	U37583		BOX	Y				Mixed Waste/Treatment	MIXED	1	8 975 00	4 49	94 80	3 51
0923	08	0001	M11390	08/30/2010	09/02/2010	null	09/02/2010	null	T	Q54478		DRM	Y				Mixed Waste/Treatment	MIXED	1	166 36	0 08	4 03	0 15
0923	09	0001	PM01197	08/30/2010	09/03/2010	null	09/07/2010	null	T	Q54478		DRM	Y				PCB MW/Treatment	MIXED	1	363 76	0 18	7 52	0 28
0943	01	0001	PM01227	09/23/2010	null	null	09/23/2010	null	T			DRM					PCB MW	MIXED	2	1 598 30	0 80	14 72	0 55
0956	01	0001	M11339	07/30/2010	08/03/2010	07/30/2010	08/02/2010	null	T	U38065		DRM					Mixed Waste/Treatment	MIXED	1	680 00	0 34	11 60	0 43
6202	01	0006	M11342	07/30/2010	08/03/2010	null	08/02/2010	null	T	548749		BOX	N		Y		Mixed Waste	MIXED	2	7 310 00	3 66	192 00	7 11
6204	03	0019	M11306	06/28/2010	06/29/2010	06/28/2010	06/29/2010	null	T	848265		BOX	Y		Y		Mixed Waste	MIXED	4	22 778 28	11 39	384 00	14 22
6204	03	0020	M11308	06/28/2010	06/29/2010	06/28/2010	06/29/2010	null	T	HT3		BOX	Y		Y		Mixed Waste	MIXED	12	43 162 32	21 58	540 00	20 00
6204	03	0021	M11315	07/12/2010	07/14/2010	07/12/2010	07/14/2010	null	T	4854		BOX	Y		Y		Mixed Waste	MIXED	3	21 098 35	10 55	288 00	10 67
6204	03	0022	M11330	07/26/2010	07/28/2010	07/26/2010	07/27/2010	null	T	7367		BOX DRM	Y		Y		Mixed Waste	MIXED	52	28 799 13	14 40	419 97	15 55
6204	03	0023	M11346	08/02/2010	08/04/2010	08/02/2010	08/04/2010	null	T	4819		BOX	Y		Y		Mixed Waste	MIXED	4	28 545 60	14 27	384 00	14 22
6204	03	0024	M11351	08/09/2010	08/12/2010	08/09/2010	08/12/2010	null	T	4836		BOX	Y		Y		Mixed Waste	MIXED	2	15 207 57	7 60	192 00	7 11
6204	03	0025	M11426	09/20/2010	09/21/2010	null	09/22/2010	null	T	848206		BOX	Y		Y		Mixed Waste	MIXED	4	26 442 38	13 22	384 00	14 22
6204	11	0002	M11437	09/27/2010	null	null	09/27/2010	null	T	Q54842		BOX	N		Y		Mixed Waste	MIXED	5	35 738 46	17 87	540 14	20 01
6209	07	1025	M11310	06/30/2010	07/09/2010	07/21/2010	07/14/2010	07/14/2010	R	ENVX		R	Y		Y		Mixed Waste	MIXED	1	276 557 00	138 28	1 984 00	73 48

## ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N	A S	M O	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
				0		10				206276													
6209	07	1026	M11311	06/30/2010	07/09/2010	07/21/2010	07/14/2010	07/14/2010	R	ENVX 206190		R	Y		Y		Mixed Waste	MIXED	1	272 857 00	136 43	1 936 00	71 70
6209	07	1027	M11312	06/30/2010	07/09/2010	07/21/2010	07/14/2010	07/14/2010	R	ENVX 206167		R	Y		Y		Mixed Waste	MIXED	1	263 664 00	131 83	1 936 00	71 70
6209	07	1028	M11371	08/20/2010	08/27/2010	09/01/2010	08/27/2010	08/27/2010	R	ENVX 206107		R	Y		Y		Mixed Waste	MIXED	1	275 557 00	137 78	1 936 00	71 70
6209	07	1029	M11370	08/20/2010	08/27/2010	null	08/27/2010	08/27/2010	R	ENVX 206262		R	Y		Y		Mixed Waste	MIXED	1	261 900 00	130 95	1 760 00	65 19
6209	07	1030	M11369	08/20/2010	08/27/2010	09/01/2010	08/27/2010	08/27/2010	R	ENVX 206124		R	Y		Y		Mixed Waste	MIXED	1	257 000 00	128 50	1 760 00	65 19
6209	07	1031	M11368	08/20/2010	08/27/2010	08/30/2010	08/27/2010	08/27/2010	R	ENVX 206286		R	Y		Y		Mixed Waste	MIXED	1	272 250 00	136 12	1 936 00	71 70
6209	07	1032	M11367	08/20/2010	08/27/2010	null	08/27/2010	08/27/2010	R	ENVX 206224		R	Y		Y		Mixed Waste	MIXED	1	276 857 00	138 43	1 936 00	71 70
6209	07	1033	M11366	08/20/2010	08/27/2010	09/01/2010	08/27/2010	08/27/2010	R	ENVX 206210		R	Y		Y		Mixed Waste	MIXED	1	270 650 00	135 32	1 936 00	71 70
6209	07	1034	M11365	08/20/2010	08/27/2010	09/01/2010	08/27/2010	08/27/2010	R	ENVX 206214		R	Y		Y		Mixed Waste	MIXED	1	271 150 00	135 58	1 936 00	71 70
6209	07	1035	M11364	08/20/2010	08/27/2010	08/31/2010	08/27/2010	08/27/2010	R	ENVX 206205		R	Y		Y		Mixed Waste	MIXED	1	210 407 00	105 20	1 232 00	45 63
6209	07	1036	M11363	08/20/2010	08/27/2010	08/31/2010	08/27/2010	08/27/2010	R	ENVX 206272		R	Y		Y		Mixed Waste	MIXED	1	261 157 00	130 58	1 760 00	65 19
6210	24	1002	M11317	07/13/2010	07/16/2010	07/14/2010	07/20/2010	null	T	7810050		DRM	Y		Y		Mixed Waste	MIXED	14	8 669 00	4 33	103 60	3 84
9006	35	0001	PM01209	09/10/2010	09/13/2010	null	09/13/2010	null	T			BOX DRM	Y		Y		PCB MW/Treatment	MIXED	19	6 535 27	3 27	213 56	7 91
9006	35	0002	PM01215	09/17/2010	09/20/2010	null	09/20/2010	null	T	U35281		DRM	N		Y		PCB MW/Treatment	MIXED	6	2 164 00	1 08	37 20	1 38

9328-06

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS No	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N	A S	M S	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9006	35	0003	PM01216	09/17/2010	09/20/2010	null	09/20/2010	null	T	U35281		DRM	N		Y		PCB MW/Treatment	MIXED	12	4 548 00	2 27	87 60	3 24
9011	04	0050	M11309	06/29/2010	07/02/2010	06/29/2010	09/09/2010	09/09/2010	T	Q55147		BOX NS	N		Y		Mixed Waste/Treatment	MIXED	2	29 600 00	14 80	168 00	6 22
9011	04	0051	M11397	09/03/2010	09/07/2010	null	09/21/2010	null	T	Q54546		BOX	N		Y		Mixed Waste/Treatment	MIXED	4	37 838 00	18 92	168 00	6 22
9011	04	0052	M11396	09/03/2010	09/07/2010	null	09/21/2010	null	T	Q54510		BOX	N		Y		Mixed Waste/Treatment	MIXED	4	36 444 00	17 72	120 00	4 44
9011	04	0053	M11409	09/13/2010	09/16/2010	null	09/17/2010	null	T	Q55122		BOX	N				Mixed Waste/Treatment	MIXED	1	13 000 00	6 50	144 00	5 33
9011	04	0054	M11415	09/14/2010	09/15/2010	null	09/16/2010	null	T	Q55335		BOX	N				Mixed Waste/Treatment	MIXED	2	27 120 00	13 56	48 00	1 78
9011	04	0055	M11414	09/14/2010	09/15/2010	null	09/16/2010	null	T	L00015		BOX	N				Mixed Waste/Treatment	MIXED	1	5 940 00	2 97	144 00	5 33
9011	04	0056	M11419	09/17/2010	09/20/2010	null	09/20/2010	null	T	Q54512		BOX	N				Mixed Waste/Treatment	MIXED	1	10 390 00	5 20	24 00	0 89
9016	01	0295	M11323	07/21/2010	07/23/2010	07/21/2010	08/09/2010	08/09/2010	T	453700		BOX DRM	Y		Y		Mixed Waste/Treatment	MIXED	7	12 652 00	6 33	65 42	2 42
9016	01	0296	M11324	07/21/2010	07/23/2010	07/21/2010	09/07/2010	09/07/2010	T	453700		BOX	Y		Y	X	Mixed Waste/Treatment	MIXED	3	7 468 00	3 73	270 00	10 00
9016	01	0297	M11325	07/22/2010	07/23/2010	07/22/2010	09/09/2010	09/09/2010	T	848024		BOX	Y	Y	Y	X	Mixed Waste/Treatment	MIXED	9	39 939 00	19 97	162 00	6 00
9016	01	0298	M11326	07/22/2010	07/23/2010	07/22/2010	09/09/2010	09/09/2010	T	848038		BOX	Y	Y	Y	X	Mixed Waste/Treatment	MIXED	9	39 018 00	19 51	162 00	6 00
9016	01	0299	M11391	09/01/2010	09/02/2010	null	09/14/2010	09/14/2010	T	453700		DRM	Y		Y		Mixed Waste/Treatment	MIXED	1	110 00	0 06	4 01	0 15
9016	01	0300	M11357	08/18/2010	08/19/2010	08/18/2010	09/07/2010	09/09/2010	T	453700		BOX	Y		Y	X	Mixed Waste/Treatment	MIXED	2	3 090 00	1 54	182 00	6 74

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S B	M S B	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9016	01	0301	M11358	08/18/2010	08/19/2010	08/18/2010	09/07/2010	09/07/2010	T	453700		BOX DRM	Y		Y		Mixed Waste/Treatment	MIXED	6	10 534 00	5 27	46 89	1 74
9016	01	0302	M11392	09/01/2010	09/02/2010	null	09/16/2010	09/16/2010	T	453700		BOX	Y		Y	X	Mixed Waste/Treatment	MIXED	2	32 008 00	16 00	315 00	11 67
9016	01	0303	M11395	09/02/2010	09/03/2010	null	09/16/2010	09/16/2010	T	848038		BOX	Y		Y	X	Mixed Waste/Treatment	MIXED	9	38 882 00	19 44	162 00	6 00
9016	01	0304	M11394	09/02/2010	09/03/2010	null	09/16/2010	09/16/2010	T	848283		BOX	Y		Y	X	Mixed Waste/Treatment	MIXED	9	34 698 00	17 35	234 00	8 67
9016	01	0305	M11417	09/15/2010	09/15/2010	null	09/15/2010	09/16/2010	T	848152		CVAN	Y		Y	X	Mixed Waste/Treatment	MIXED	1	36 855 00	18 43	1 280 00	47 41
9016	01	0306	M11416	09/15/2010	09/15/2010	null	09/15/2010	09/16/2010	T	237904		CVAN	Y		Y	X	Mixed Waste/Treatment	MIXED	1	27 655 00	13 83	1 280 00	47 41
9016	01	0307	M11431	09/22/2010	null	null	09/22/2010	null	T	453702		BOX	Y		Y		Mixed Waste/Treatment	MIXED	4	19 655 00	9 83	284 75	10 55
9016	01	0308	M11429	09/22/2010	09/23/2010	null	09/22/2010	null	T	848071		CVAN	Y		Y		Mixed Waste/Treatment	MIXED	1	16 917 00	8 46	1 280 00	47 41
9016	07	0080	PM01169	07/21/2010	07/22/2010	07/21/2010	09/09/2010	09/09/2010	T	453700		BOX DRM	Y	Y	Y		PCB MW/Treatment	MIXED	2	3 573 69	1 79	97 35	3 61
9016	07	0081	PM01198	09/01/2010	09/02/2010	null	09/14/2010	09/14/2010	T	453700		BOX	Y		Y		PCB MW/Treatment	MIXED	2	5 745 25	2 87	96 00	3 56
9016	13	0007	PM01199	09/01/2010	09/02/2010	null	09/02/2010	null	T	453700		DRM	N		Y		PCB MW/Treatment	MIXED	1	37 48	0 02	2 14	0 08
9016	18	0044	M11321	07/21/2010	07/22/2010	07/21/2010	07/22/2010	null	T	453700		DRM	Y		Y	X	Mixed Waste/Treatment	MIXED	2	29 00	0 01	1 34	0 05
9016	18	0045	M11359	08/18/2010	08/24/2010	08/18/2010	08/20/2010	null	T	453700		DRM	Y		Y		Mixed Waste/Treatment	MIXED	10	4 500 00	2 25	73 52	2 72
9016	18	0046	M11360	08/18/2010	08/24/2010	08/18/2010	08/20/2010	null	T	453700		DRM	Y		Y	X	Mixed Waste/Treatment	MIXED	2	99 00	0 05	4 68	0 17

# ENERGYSOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Val (ft)	Shipment Gross Val (yd)
9016	18	0047	M11430	09/22/2010	09/23/2010	null	09/22/2010	null	T	453702		DRM	Y		Y		ent Mixed Waste/Treatment	MIXED	1	42 00	0 02	2 67	0 10
9016	28	0011	M11322	07/21/2010	07/22/2010	07/21/2010	07/22/2010	null	T	453700		DRM	Y		Y	X	Mixed Waste/Treatment	MIXED	2	111 00	0 06	3 74	0 14
9036	02	0061	PM01172	07/26/2010	07/29/2010	07/26/2010	08/12/2010	null	T	7067		55G 5G 85G DRM	Y		Y		PCB MW/Treatment	MIXED	66	17 985 40	8 99	516 00	19 11
9036	02	0062	PM01181	07/26/2010	08/05/2010	null	09/21/2010	null	T	7133		DRM	Y		Y		PCB MW/Treatment	MIXED	59	16 455 39	8 23	499 96	18 52
9036	02	0064	PM01183	08/06/2010	08/10/2010	08/06/2010	08/21/2010	null	T	7238		DRM	Y		Y		PCB MW/Treatment	MIXED	17	6 459 58	3 23	195 17	7 23
9036	02	0066	PM01189	08/16/2010	08/18/2010	08/16/2010	08/18/2010	null	T	7367		DRM	Y		Y		PCB MW/Treatment	MIXED	70	16 307 68	8 15	280 73	10 40
9036	02	0068	PM01220	09/20/2010	09/22/2010	null	09/20/2010	null	T	7147		85G	Y		Y		PCB MW/Treatment	MIXED	55	13 368 90	6 68	624 95	23 15
9036	02	0069		09/27/2010	null	null	null	null	T	7375		55G 5G 85G DRM	Y		Y		PCB MW/Treatment	MIXED	32	15 251 66	7 63	353 58	13 10
9036	02	0070	PM01233	09/27/2010	null	null	09/27/2010	null	T	7278		55G 5G 85G DRM	Y		Y		PCB MW/Treatment	MIXED	63	8 359 97	4 18	398 49	14 76
9048	03	0152	PM01165	07/14/2010	07/15/2010	07/14/2010	09/09/2010	09/09/2010	T	848021		BAG BOX	Y	Y			PCB MW/Treatment	MIXED	12	25 915 34	12 96	1 080 63	40 02
9048	03	0153	PM01164	07/14/2010	07/15/2010	07/14/2010	08/30/2010	08/30/2010	T	848021		BOX	Y				PCB MW/Treatment	MIXED	2	2 478 88	1 24	180 10	6 67
9048	03	0154	PM01176	07/28/2010	07/30/2010	07/28/2010	07/28/2010	null	T	848020		BOX	Y	Y			PCB MW/Treatment	MIXED	2	20 657 23	10 33	854 97	31 67
9048	03	0155	PM01190	08/18/2010	08/24/2010	08/18/2010	08/18/2010	null	T	848077		CVAN	Y	Y			PCB MW/Treatment	MIXED	1	14 546 10	7 27	284 99	10 56

# ENERGYSOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed m LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S B	M S B	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9061	01	0041	PM01177	07/29/2010	07/30/2010	07/29/2010	08/06/2010	null	T	7244		DRM	Y		Y	PCB MW/Treatment	MIXED	1	54 01	0 03	4 01	0 15
9061	01	0042	PM01182	08/05/2010	08/06/2010	08/05/2010	08/09/2010	null	T	7036		DRM	Y		Y	PCB MW/Treatment	MIXED	23	1 480 29	0 74	24 60	0 91
9061	01	0043	PM01194	08/23/2010	08/25/2010	08/23/2010	08/24/2010	null	T	7442		DRM	Y		Y	PCB MW/Treatment	MIXED	6	385 19	0 19	6 42	0 24
9061	01	0044	PM01195	08/31/2010	09/02/2010	08/31/2010	09/02/2010	null	T	7238		DRM	Y		Y	PCB MW/Treatment	MIXED	13	843 58	0 42	13 90	0 51
9061	01	0045	PM01196	08/31/2010	09/02/2010	08/31/2010	09/02/2010	null	T	7238		DRM	Y		Y	PCB MW/Treatment	MIXED	1	113 54	0 06	4 01	0 15
9061	01	0046	PM01204	09/07/2010	09/08/2010	null	09/08/2010	null	T	7361		DRM	Y		Y	PCB MW/Treatment	MIXED	6	386 95	0 19	6 42	0 24
9061	01	0047	PM01210	09/13/2010	09/14/2010	null	09/13/2010	null	T	7321		DRM	Y		Y	PCB MW/Treatment	MIXED	21	1 356 08	0 68	22 46	0 83
9061	01	0048	PM01225	09/20/2010	09/21/2010	null	09/22/2010	null	T	KV536 28L		DRM	Y		Y	PCB MW/Treatment	MIXED	1	25 35	0 01	0 67	0 02
9061	06	0118	M11302	06/28/2010	06/29/2010	06/28/2010	08/09/2010	08/09/2010	T	7179		DRM	Y		Y	Mixed Waste/Treatment	MIXED	12	3 836 38	1 92	26 67	0 95
9061	06	0119	M11301	06/28/2010	06/29/2010	06/28/2010	08/09/2010	08/09/2010	T	7274		DRM	Y		Y	Mixed Waste/Treatment	MIXED	18	5 779 09	2 89	38 50	1 43
9061	06	0120	M11303	06/28/2010	06/29/2010	06/28/2010	08/09/2010	08/09/2010	T	7364		DRM	Y		Y	Mixed Waste/Treatment	MIXED	12	3 904 44	1 95	25 67	0 95
9061	06	0121	M11313	07/06/2010	07/06/2010	07/06/2010	08/09/2010	08/09/2010	T	7132		DRM	Y		Y	Mixed Waste/Treatment	MIXED	12	3 817 36	1 91	25 67	0 95
9061	06	0123	M11318	07/19/2010	07/20/2010	07/19/2010	08/09/2010	08/09/2010	T	7356		DRM	Y		Y	Mixed Waste/Treatment	MIXED	18	5 623 96	2 81	38 50	1 43
9061	06	0124	M11320	07/19/2010	07/20/2010	07/19/2010	08/09/2010	08/09/2010	T	7319		DRM	Y		Y	Mixed Waste/Treatment	MIXED	12	3 684 25	1 84	25 67	0 95

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS No	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S B	M S B	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9061	06	0125	M11319	07/19/2010	07/20/2010	07/19/2010	08/30/2010	08/30/2010	T	7442		DRM	Y		Y		Mixed Waste/Treatment	MIXED	18	5 751 07	2 88	38 50	1 43
9061	06	0126	M11336	07/29/2010	07/30/2010	07/29/2010	08/30/2010	08/30/2010	T	7244		DRM	Y		Y		Mixed Waste/Treatment	MIXED	18	5 700 02	2 85	38 50	1 43
9061	06	0127	M11347	08/05/2010	08/06/2010	08/05/2010	08/09/2010	08/09/2010	T	7036		DRM	Y		Y		Mixed Waste/Treatment	MIXED	18	5 757 07	2 88	38 50	1 43
9061	06	0128	M11353	08/13/2010	08/13/2010	08/13/2010	08/30/2010	08/30/2010	T	7190		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 779 33	1 89	25 67	0 95
9061	06	0129	M11374	08/23/2010	08/24/2010	08/23/2010	08/30/2010	08/30/2010	T	7442		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 819 76	1 91	25 67	0 95
9061	06	0130	M11373	08/23/2010	08/24/2010	08/23/2010	08/30/2010	08/30/2010	T	7361		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 846 39	1 92	25 67	0 95
9061	06	0131	M11372	08/23/2010	08/24/2010	08/23/2010	08/30/2010	08/30/2010	T	7185		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 812 36	1 91	25 67	0 95
9061	06	0132	M11388	08/31/2010	09/02/2010	08/31/2010	09/09/2010	09/09/2010	T	7238		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 723 28	1 86	25 67	0 95
9061	06	0133	M11404	09/07/2010	09/08/2010	null	09/08/2010	null	T	7361		DRM	Y		Y		Mixed Waste/Treatment	MIXED	17	5 383 74	2 69	36 36	1 35
9061	06	0134	M11412	09/13/2010	09/16/2010	null	09/14/2010	null	T	7321		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 764 32	1 88	25 67	0 95
9061	06	0135	M11413	09/13/2010	09/16/2010	null	09/14/2010	null	T	7367		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 773 32	1 89	25 67	0 95
9061	06	0136	M11423	09/20/2010	09/21/2010	null	09/21/2010	null	T	KV536 28L		DRM	Y		Y		Mixed Waste/Treatment	MIXED	18	5 598 93	2 80	38 50	1 43
9061	06	0137	M11421	09/20/2010	09/21/2010	null	09/21/2010	null	T	KV536 27L		DRM	Y		Y		Mixed Waste/Treatment	MIXED	12	3 797 35	1 90	25 67	0 95
9061	07	0016	M11305	06/28/2010	07/02/2010	06/28/2010	06/28/2010	null	T	7364		C LIN ER	Y				Mixed Waste/Treatment	MIXED	1	2 849 87	1 42	44 11	1 63



# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS No	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9061	07	0017	M11352	08/13/2010	08/16/2010	08/13/2010	08/13/2010	null	T	7190		C LINER	Y			ent Mixed Waste/Treatment	MIXED	4	10 406 97	5 20	176 46	6 54
9061	07	0018	M11375	08/23/2010	08/24/2010	08/23/2010	08/23/2010	null	T	7442		DRM	Y			ent Mixed Waste/Treatment	MIXED	1	169 75	0 08	4 01	0 15
9061	08	0037	PM01157	07/06/2010	07/06/2010	07/06/2010	08/30/2010	08/30/2010	T	7132		DRM	Y		Y	PCB MW/Treatment	MIXED	11	1 887 13	0 94	80 88	3 00
9061	08	0038	PM01202	09/07/2010	09/08/2010	null	09/08/2010	null	T	7361		DRM	Y		Y	PCB MW/Treatment	MIXED	47	8 858 05	4 43	345 56	12 80
9061	08	0039	PM01224	09/20/2010	09/22/2010	null	09/22/2010	null	T	KV536 28L		DRM	Y		Y	PCB MW/Treatment	MIXED	4	537 48	0 27	22 73	0 84
9061	08	0040	PM01223	09/20/2010	09/22/2010	null	09/21/2010	null	T	KV536 27L		DRM	Y			PCB MW/Treatment	MIXED	54	6 041 19	3 02	401 04	14 85
9061	08	0041	PM01222	09/20/2010	09/22/2010	null	09/21/2010	null	T	4875		CVAN	Y		Y	PCB MW/Treatment	MIXED	1	17 999 69	9 00	1 162 00	43 04
9061	10	0002	M11348	08/05/2010	08/06/2010	08/05/2010	08/09/2010	null	T	7036		DRM	Y			ent Mixed Waste/Treatment	MIXED	4	2 127 43	1 06	29 41	1 09
9061	12	0007	M11304	06/28/2010	08/02/2010	06/28/2010	07/02/2010	null	T	7364		DRM	Y		Y	ent Mixed Waste/Treatment	MIXED	2	494 93	0 25	11 36	0 42
9061	20	0005	PM01193	08/23/2010	08/27/2010	08/23/2010	08/26/2010	null	T	Q55130		CVAN	Y			PCB MW/Treatment	MIXED	1	13 737 00	6 87	360 00	13 33
9061	21	0001	M11376	08/23/2010	08/25/2010	08/23/2010	08/25/2010	null	T	4873		BOX	Y			ent Mixed Waste/Treatment	MIXED	5	39 800 00	19 90	479 91	17 77
9061	21	0002	M11378	08/23/2010	08/25/2010	08/23/2010	08/25/2010	08/25/2010	T	4852		BOX	Y			ent Mixed Waste/Treatment	MIXED	5	39 830 00	19 92	479 91	17 77
9061	21	0003	M11380	08/23/2010	08/25/2010	08/23/2010	08/24/2010	null	T	128		BOX	Y			ent Mixed Waste/Treatment	MIXED	5	40 090 00	20 04	479 91	17 77
9061	21	0004	M11379	08/23/2010	08/25/2010	08/23/2010	08/25/2010	null	T	102		BOX	Y			ent Mixed Waste/Treatment	MIXED	5	39 170 00	19 58	479 91	17 77

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS No	Ship No	Bates No	Arrived Date	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
9061	21	0005	M11377	08/23/2010	08/25/2010	08/23/2010	08/24/2010	null	T	4873		DRM	Y				ent Mixed Waste/Treatment	MIXED	1	55 11	0 03	0 67	0 02
9061	21	0006	M11386	08/30/2010	09/01/2010	08/30/2010	08/31/2010	null	T	OTR34		BOX	Y				Mixed Waste/Treatment	MIXED	5	37 760 00	18 88	479 91	17 77
9061	21	0007	M11383	08/30/2010	09/01/2010	08/30/2010	08/30/2010	null	T	OTR30		BOX	Y				Mixed Waste/Treatment	MIXED	5	39 700 00	19 85	479 91	17 77
9061	21	0008	M11384	08/30/2010	09/01/2010	08/30/2010	08/31/2010	null	T	4820		BOX	Y				Mixed Waste/Treatment	MIXED	5	40 470 00	20 24	479 91	17 77
9061	21	0009	M11385	08/30/2010	09/01/2010	08/30/2010	08/31/2010	null	T	4838		BOX	Y				Mixed Waste/Treatment	MIXED	5	40 180 00	20 09	479 91	17 77
9061	21	0010	M11400	09/07/2010	09/08/2010	null	09/08/2010	null	T	102		BOX	Y				Mixed Waste/Treatment	MIXED	5	39 890 00	19 94	479 91	17 77
9061	21	0011	M11398	09/07/2010	09/08/2010	null	09/08/2010	null	T	OTR 7		BOX	Y				Mixed Waste/Treatment	MIXED	5	41 040 00	20 52	479 91	17 77
9061	21	0012	M11399	09/07/2010	09/08/2010	null	09/08/2010	null	T	4875		BOX	Y				Mixed Waste/Treatment	MIXED	5	38 320 00	19 16	479 91	17 77
9061	21	0013	M11406	09/07/2010	09/08/2010	null	09/08/2010	null	T	4864		BOX	Y				Mixed Waste/Treatment	MIXED	5	40 550 00	20 28	479 91	17 77
9061	21	0015	M11405	09/07/2010	09/08/2010	null	09/08/2010	null	T	29		BOX	Y				Mixed Waste/Treatment	MIXED	5	38 690 00	19 34	479 91	17 77
9061	21	0016	M11389	08/31/2010	09/02/2010	08/31/2010	09/02/2010	null	T	7238		BAG	Y		Y		Mixed Waste/Treatment	MIXED	1	7 807 00	3 90	95 98	3 55
9063	08	0001	M11420	09/17/2010	09/20/2010	null	09/20/2010	null	T	548744		BOX DRM WOOD	Y		Y		Mixed Waste/Treatment	MIXED	26	12 455 00	6 23	707 00	26 19
9075	01	0009	M11328	07/26/2010	07/28/2010	07/26/2010	09/09/2010	09/09/2010	IT	OTR30		IM	Y				Mixed Waste/Treatment	MIXED	1	35 540 00	17 77	798 00	29 56
9075	01	0010	M11382	08/26/2010	08/27/2010	null	08/31/2010	null	T	OTR2		BOX	Y		Y		Mixed	MIXED	2	13 940 00	6 97	182 00	6 74

# ENERGYSOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
				0						9							Waste/Treatment						
9075	01	0011	M11393	09/02/2010	09/03/2010	null	09/03/2010	null	T	281		B 25 BOX	Y		Y		Mixed Waste/Treatment	MIXED	3	22 090 00	11 04	293 00	10 85
9075	01	0012	M11422	09/20/2010	09/22/2010	null	09/22/2010	null	T	OTR8		B 25	Y		Y		Mixed Waste/Treatment	MIXED	3	9 380 00	4 59	376 00	13 93
9075	01	0013	M11436	09/24/2010	null	null	09/24/2010	null	T	OTR3 0		B 25 IM	Y				Mixed Waste/Treatment	MIXED	5	21 370 00	10 68	1 162 00	43 04
9075	02	0004	PM0115 4	06/30/2010	07/02/2010	null	06/30/2010	null	T			DRM	Y	Y			PCB MW/Treatment	MIXED	7	721 50	0 36	51 47	1 91
9075	03	0001	PM0115 3	06/30/2010	07/02/2010	null	06/30/2010	null	T			DRM	Y				PCB MW/Treatment	MIXED	3	434 00	0 22	22 06	0 82
9076	01	0006	M11349	08/06/2010	08/09/2010	08/09/2010	08/06/2010	08/09/2010	T	T5005 7		CVAN	N				Mixed Waste/Treatment	MIXED	1	68 930 00	34 46	1 280 00	47 41
9076	01	0007	M11344	08/02/2010	08/05/2010	08/02/2010	09/14/2010	09/16/2010	T	38301 10		BOX	Y	Y	Y		Mixed Waste/Treatment	MIXED	6	25 875 00	12 94	384 00	14 22
9076	01	0008	M11435	09/24/2010	null	null	09/24/2010	null	T	38300 60RR		BOX WOOD	Y		Y		Mixed Waste/Treatment	MIXED	3	9 625 00	4 81	271 00	10 04
9079	08	0008	PM0121 2	09/14/2010	09/20/2010	null	09/20/2010	null	T	PICK UP 1		DRM	Y			X	PCB MW/Treatment	MIXED	5	899 47	0 45	37 06	1 37
9080	02	0001	M11387	08/30/2010	09/01/2010	08/30/2010	08/31/2010	null	T	84820 7		DRM	N		Y		Mixed Waste/Treatment	MIXED	2	797 00	0 40	18 40	0 68
9083	01	0006	M11340	07/30/2010	08/03/2010	07/30/2010	09/14/2010	09/14/2010	T	44820 3		BOX DRM	Y		Y		Mixed Waste/Treatment	MIXED	5	2 795 00	1 40	76 03	2 82
9083	02	0004	PM0117 8	07/30/2010	08/03/2010	07/30/2010	09/09/2010	09/09/2010	T	44820 3		BOX	Y	Y	Y		PCB MW/Treatment	MIXED	1	1 660 00	0 83	18 00	0 67
9083	02	0008	PM0120 8	09/10/2010	09/13/2010	null	09/14/2010	09/14/2010	T	84807 5		OTHE R	Y				PCB MW/Treatment	MIXED	1	34 927 00	17 46	46 62	1 73
9083	02	0009	PM0120	09/10/2010	09/13/2010	null	09/14/2010	09/14/2010	T	23835		OTHE	Y		Y		PCB	MIXED	1	24 691 77	12 35	27 55	1 02

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rall No	Cntr Types	S N	A S	M S	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
			7	0						2		R					MW/Treatment						
9083	02	0010	PM01206	09/10/2010	09/13/2010	null	09/14/2010	09/14/2010	T	237902		OTHE R	Y		Y		PCB MW/Treatment	MIXED	1	25 353 16	12 68	45 91	1 70
9083	02	0011	PM01218	09/17/2010	09/20/2010	null	09/21/2010	09/21/2010	T	238352		Cask	Y		Y		PCB MW/Treatment	MIXED	1	24 691 77	12 35	27 56	1 02
9083	02	0012	PM01219	09/17/2010	09/20/2010	null	09/21/2010	09/21/2010	T	848205		Cask	Y		Y		PCB MW/Treatment	MIXED	1	20 000 00	10 00	30 02	1 11
9083	02	0013	PM01217	09/17/2010	09/20/2010	null	09/21/2010	09/21/2010	T	848075		Cask	Y		Y		PCB MW/Treatment	MIXED	1	28 000 00	14 00	40 96	1 52
9083	02	0014	PM01230	09/24/2010	null	null	09/24/2010	null	T	848038		Cask	Y		Y		PCB MW/Treatment	MIXED	1	25 600 00	12 80	44 14	1 63
9083	02	0015	PM01228	09/24/2010	null	null	09/24/2010	null	T	237902		Cask	Y		Y		PCB MW/Treatment	MIXED	1	28 600 00	14 30	56 15	2 08
9083	02	0016	PM01229	09/24/2010	null	null	09/24/2010	null	T	848263		Cask	Y				PCB MW/Treatment	MIXED	1	31 967 03	15 98	46 62	1 73
9083	03	0006	M11341	07/30/2010	08/03/2010	07/30/2010	08/02/2010	null	T	448203		DRM	Y				Mixed Waste/Treatment	MIXED	2	45 50	0 02	2 01	0 07
9306	02	0024	PM01175	07/27/2010	07/30/2010	07/28/2010	08/30/2010	08/30/2010	T	548749		DRM	Y		Y		PCB MW/Treatment	MIXED	2	17 00	0 01	1 34	0 05
9306	02	0025	PM01173	07/27/2010	07/28/2010	07/27/2010	09/09/2010	09/09/2010	T	848164		BOX	Y		Y		PCB MW/Treatment	MIXED	5	6 864 00	3 43	480 00	17 78
9306	03	0032	M11332	07/27/2010	07/29/2010	07/27/2010	08/30/2010	08/30/2010	T	648074		DRM	Y		Y		Mixed Waste/Treatment	MIXED	16	2 695 00	1 35	99 61	3 69
9306	08	0057	M11333	07/27/2010	07/30/2010	07/28/2010	07/28/2010	null	T	548749		LINER	Y				Mixed Waste/Treatment	MIXED	4	9 358 00	4 68	192 00	7 11
9306	08	0058	M11331	07/27/2010	07/30/2010	07/27/2010	07/30/2010	null	T	548074		DRM	Y		Y		Mixed Waste/Treatment	MIXED	20	7 720 00	3 86	132 17	4 90
9306	15	0016	PM0117	07/27/2010	07/30/2010	07/28/2010	07/30/2010	null	T	54874		DRM	Y		Y		PCB	MIXED	1	66 00	0 03	7 50	0 28

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

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Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Ref No	Cntr Types	S N M	A S B	M O B	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
			4	0		10				9							MW/Treatment						
9306	19	0002	M11334	07/27/2010	07/30/2010	07/28/2010	09/14/2010	09/14/2010	T	648749		DRM	Y		Y		Mixed Waste/Treatment	MIXED	1	22 00	0 01	0 67	0 02
9306	20	0003	M11335	07/27/2010	07/30/2010	null	08/21/2010	null	T	548749		DRM	N		Y		Mixed Waste/Treatment	MIXED	1	12 00	0 01	0 67	0 02
9314	01	0188	M11307	06/28/2010	06/29/2010	06/28/2010	08/30/2010	08/30/2010	T	848265		BOX	Y		Y		Mixed Waste/Treatment	MIXED	7	8 889 08	4 44	672 00	24 89
9314	01	0189	M11329	07/26/2010	07/28/2010	07/26/2010	08/30/2010	09/07/2010	T	7367		BOX DRM	Y		Y		Mixed Waste/Treatment	MIXED	17	4 026 76	2 01	200 29	7 42
9314	01	0190	M11343	08/02/2010	08/04/2010	08/02/2010	09/07/2010	09/07/2010	T	4819		BOX	Y		Y		Mixed Waste/Treatment	MIXED	10	9 258 36	4 63	960 00	35 56
9314	01	0191	M11350	08/09/2010	08/10/2010	08/09/2010	08/30/2010	08/30/2010	T	4836		BOX	Y		Y		Mixed Waste/Treatment	MIXED	11	10 118 17	5 06	1 056 00	39 11
9314	01	0192	M11356	08/16/2010	08/18/2010	08/16/2010	09/09/2010	09/09/2010	T	7367		DRM	Y		Y		Mixed Waste/Treatment	MIXED	11	1 363 57	0 68	80 88	3 00
9314	01	0193	M11410	09/13/2010	09/16/2010	null	09/21/2010	null	T	4868		BOX CVAN	Y	Y	Y		Mixed Waste/Treatment	MIXED	5	32 155 00	16 08	1 712 00	63 41
9314	01	0194	M11411	09/13/2010	09/16/2010	null	09/21/2010	09/21/2010	T	4816		BOX	Y	Y	Y		Mixed Waste/Treatment	MIXED	2	4 910 00	2 46	216 00	8 00
9314	01	0195	M11418	09/16/2010	09/17/2010	null	09/17/2010	null	T	4837		BOX	Y		Y		Mixed Waste/Treatment	MIXED	2	9 330 00	4 66	216 00	8 00
9314	01	0197	M11432	09/23/2010	09/23/2010	null	09/23/2010	null	T	4903		BOX	Y		Y		Mixed Waste/Treatment	MIXED	2	37 820 79	18 91	216 06	8 00
9314	01	0198	M11424	09/20/2010	09/22/2010	null	09/20/2010	null	T	Q55172		BAG BOX	N		Y		Mixed Waste/Treatment	MIXED	4	28 960 00	14 48	798 50	29 57
9314	01	0199	M11425	09/20/2010	09/22/2010	null	09/21/2010	null	T	848206		BOX	Y		Y		Mixed Waste/Treatment	MIXED	3	4 188 80	2 09	288 00	10 67
9314	02	0118	PM0116	07/12/2010	07/14/2010	07/12/2010	09/14/2010	09/14/2010	T	4854		BOX	Y		Y		PCB	MIXED	6	9 537 25	4 77	576 00	21 33

# ENERGYSOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N	A S	M O	S S	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
			0	0		10											MW/Treatment						
9314	02	0119	PM01205	09/07/2010	09/08/2010	null	09/21/2010	null	T	4874		BOX	Y		Y		PCB MW/Treatment	MIXED	6	42 050 00	21 03	648 38	24 01
9314	02	0120	PM01203	09/07/2010	09/08/2010	null	09/09/2010	null	T	4827		BOX	Y		Y		PCB MW/Treatment	MIXED	5	41 876 00	20 94	540 31	20 01
9314	02	0121	PM01226	09/20/2010	09/22/2010	null	09/21/2010	null	T	848206		BOX	Y		Y		PCB MW/Treatment	MIXED	3	8 117 46	4 06	288 00	10 67
9314	23	0003	PM01151	06/28/2010	07/02/2010	06/28/2010	07/23/2010	08/11/2010	T	4901		B 25 BOX	Y				PCB MW/Treatment	MIXED	12	29 762 56	14 88	1 150 80	42 62
9314	23	0007	PM01158	07/12/2010	07/14/2010	07/12/2010	07/23/2010	09/07/2010	T	4904		B 25	N				PCB MW/Treatment	MIXED	12	25 423 84	12 71	1 152 00	42 67
9314	23	0008	PM01161	07/12/2010	07/14/2010	07/12/2010	08/03/2010	08/11/2010	T	4820		B 25	Y	Y	Y		PCB MW/Treatment	MIXED	12	22 315 31	11 16	1 152 00	42 67
9314	23	0009	PM01159	07/12/2010	07/14/2010	07/12/2010	08/03/2010	null	T	4851		B 25	Y		Y		PCB MW/Treatment	MIXED	12	17 504 79	8 75	1 152 00	42 67
9314	23	0012	PM01163	07/14/2010	07/15/2010	07/14/2010	08/12/2010	null	T	4817		B 25	Y		Y		PCB MW/Treatment	MIXED	14	25 192 35	12 60	1 340 40	49 54
9314	23	0013	PM01155	07/02/2010	07/06/2010	07/02/2010	07/22/2010	09/13/2010	T	7096		B 25	N		Y		PCB MW/Treatment	MIXED	3	3 675 12	1 84	288 00	10 67
9314	23	0014	PM01150	06/28/2010	07/01/2010	06/28/2010	06/30/2010	null	T	7067		85G	Y	Y	Y		PCB MW/Treatment	MIXED	62	15 154 87	7 58	704 49	26 09
9314	23	0015	PM01152	06/29/2010	07/02/2010	06/29/2010	07/02/2010	null	T	7386		85G	Y				PCB MW/Treatment	MIXED	53	18 252 16	9 13	602 23	22 30
9314	23	0016	PM01162	07/12/2010	07/13/2010	07/12/2010	07/21/2010	null	T	7007		55G 85G DRM	Y		Y		PCB MW/Treatment	MIXED	80	17 623 84	8 81	632 31	23 42
9314	23	0017	PM01156	07/06/2010	07/09/2010	07/06/2010	07/20/2010	null	T	7187		55G 85G DRM	Y	Y	Y		PCB MW/Treatment	MIXED	79	14 685 07	7 34	601 56	22 28
9314	23	0018	PM0116	07/16/2010	07/20/2010	07/16/2010	08/05/2010	null	T	7314		55G	Y	Y	Y		PCB	MIXED	80	17 138 82	8 57	562 79	20 84

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10:20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S B	M S B	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
			6	0		10						85G DRM				MW/Treatment						
9314	23	0019	PM01168	07/19/2010	07/21/2010	07/19/2010	08/11/2010	null	T	7366		55G 85G	Y		Y	PCB MW/Treatment	MIXED	68	16 845 61	8 42	728 56	26 98
9314	23	0020	PM01167	07/19/2010	07/21/2010	07/19/2010	07/22/2010	null	T	7036		55G 85G	Y	Y	Y	PCB MW/Treatment	MIXED	63	18 205 87	9 10	575 49	21 31
9314	23	0021	PM01179	08/02/2010	08/04/2010	08/02/2010	08/06/2010	null	T	7442		DRM	Y		Y	PCB MW/Treatment	MIXED	61	16 367 20	8 18	518 68	19 21
9314	23	0022	PM01180	08/02/2010	08/04/2010	08/02/2010	08/06/2010	null	T	7361		55G 5G 85G B 25 DRM	Y		Y	PCB MW/Treatment	MIXED	57	15 228 13	7 61	615 35	22 79
9314	23	0023	PM01171	07/26/2010	07/28/2010	07/26/2010	08/30/2010	null	T	4901		B 25 BOX	Y	Y	Y	PCB MW/Treatment	MIXED	12	23 280 94	11 64	1 126 80	41 73
9314	23	0025	PM01186	08/16/2010	08/18/2010	08/16/2010	08/24/2010	null	T	7133		DRM	Y	Y	Y	PCB MW/Treatment	MIXED	80	16 133 51	8 07	514 67	19 06
9314	23	0026	PM01185	08/09/2010	08/12/2010	08/09/2010	09/10/2010	null	T	7067		DRM	Y		Y	PCB MW/Treatment	MIXED	80	28 832 20	14 42	551 43	20 42
9314	23	0027	PM01186	08/10/2010	08/12/2010	08/10/2010	09/08/2010	null	T	7062		DRM	Y		Y	PCB MW/Treatment	MIXED	72	15 159 06	7 58	492 61	18 24
9314	23	0028	PM01191	08/20/2010	08/25/2010	08/20/2010	08/24/2010	null	T	7194		55G 85G DRM	Y		Y	PCB MW/Treatment	MIXED	39	11 614 01	5 81	341 55	12 65
9314	23	0029	PM01200	09/07/2010	09/13/2010	null	09/13/2010	null	T	7360		55G 5G 85G DRM	Y	Y	Y	PCB MW/Treatment	MIXED	64	13 684 16	6 84	388 34	14 38
9314	23	0030	PM01201	09/07/2010	09/13/2010	null	09/10/2010	null	T	7375		85G DRM	Y		Y	PCB MW/Treatment	MIXED	63	17 553 30	8 78	564 86	20 92
9314	23	0031	PM01184	08/06/2010	08/10/2010	08/06/2010	09/07/2010	null	T	7238		DRM	Y		Y	PCB MW/Treatment	MIXED	47	16 576 64	8 29	431 79	15 99
9314	23	0032	PM0121	09/13/2010	09/16/2010	null	09/16/2010	null	T	7062		55G	Y		Y	PCB	MIXED	66	17 498 18	8 75	598 22	22 16

# ENERGY SOLUTIONS

## Shipment General Process

Start Date 27 Jun 2010

End Date 27 Sep 2010

Bates No

LabLog Entry No

Storage Date BOTH

Container Type All

Primary Waste Type EnergySolutions Waste Treated Mixed Waste Mixed Waste/Treatment MW disposed in LLRW cell PCB MW PCB MW/Treatment PCB Treated MW RCRA Treated LLRW

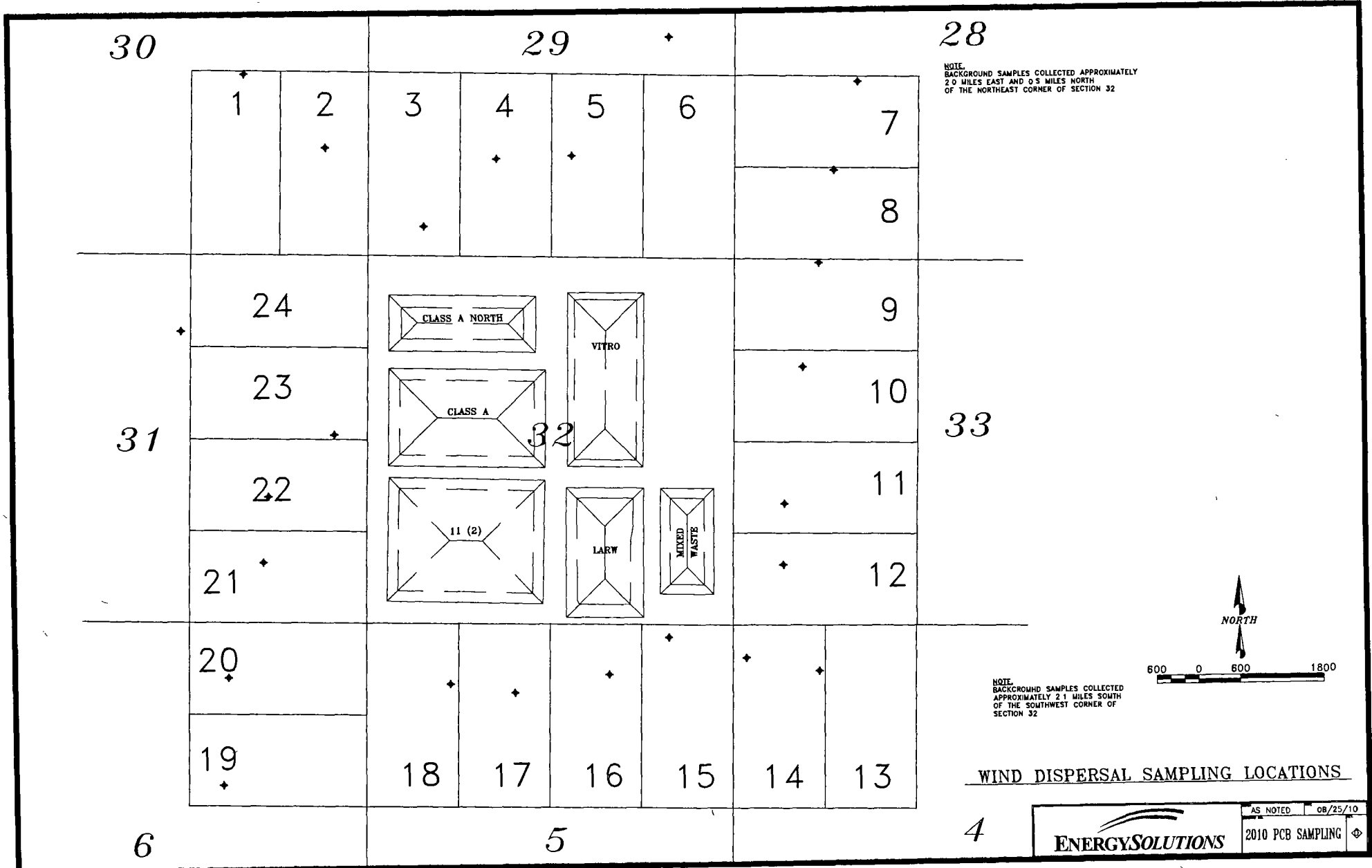
Vehicle Type All

Contract No All

Report Run Date 09/27/2010 10 20 AM

Contract No	WS	Ship No	Bates No	Arrived	Approval Date	Vehicle Release Date	Storage Date	Disposed Date	Veh Type	Veh ID	Int Rail No	Cntr Types	S N M	A S	M S	S \$	Primary Waste Type	Cell	Cntr Count	Shipment Gross Weight (lbs)	Shipment Gross Weight (ton)	Shipment Gross Vol (ft)	Shipment Gross Vol (yd)
			1	0								5G 85G DRM					MW/Treatment						
9314	23	0033	PM01192	08/20/2010	08/25/2010	08/20/2010	08/31/2010	null	T	4903		B 25	Y		Y		PCB MW/Treatment	MIXED	8	22 610 73	11 31	715 00	26 48
9314	23	0035	PM01214	09/16/2010	09/17/2010	null	09/17/2010	null	T	4837		BOX	Y	Y	Y		PCB MW/Treatment	MIXED	1	17 200 00	8 60	1 280 00	47 41
9314	23	0039	PM01231	09/27/2010	null	null	09/27/2010	null	T	4873		B 25 BOX	N		Y		PCB MW/Treatment	MIXED	2	2 272 98	1 14	186 00	6 89
9314	23	0040	PM01232	09/27/2010	null	null	09/27/2010	null	T	4873		B 25	N		Y		PCB MW/Treatment	MIXED	1	2 504 46	1 25	96 00	3 56
9401	01	0026	PM01221	09/20/2010	09/22/2010	null	09/22/2010	null	T	Q54474		BOX	N		Y		PCB MW/Treatment	MIXED	1	2 774 00	1 39	96 00	3 56
9404	04	0001	PM01187	08/12/2010	08/13/2010	08/12/2010	09/16/2010	09/16/2010	T	L00005		BOX DRM WOOD	N		Y		PCB MW/Treatment	MIXED	29	26 010 00	13 00	630 10	23 34
9501	07	0001	PM01213	09/15/2010	09/16/2010	null	09/16/2010	null	T	4840		BOX	Y		Y		PCB MW/Treatment	MIXED	1	4 398 00	2 20	96 00	3 56
9502	01	0001	M11361	08/20/2010	08/25/2010	08/20/2010	09/21/2010	09/21/2010	T	R17721		DRM	N				Mixed Waste/Treatment	MIXED	1	88 18	0 04	7 94	0 29
Total																			2,722	6,133,541 69	3,066 79	85,694 11	3,173 86





Attachment 7

Attachment 7

**24-Hour/5 Day Spill - Notification Report**  
**EC 98166, Rev 5**

**~~SECURITY - SECTION 1~~**

Condition Report #	Initiators Name Jess Garcia	Date 9-17-10
Time Implemented 1210	Location MW Operations	
Responding Emergency Coordinator Jesse Garcia	Time Emergency Coordinator Responded 1210	
Stand down issued by Jesse Garcia	Time of Stand down 1217	

Please check one of the following

SPILL ☐ EXPLOSION ☐ FIRE ☒ RELEASE ☐

Description of Incident at time of implementation	Fire in the MW operations building
Information radioed in by Emergency coordinator	Employees being evacuated to the MW dock
Type of waste involved	N/A
Approximate volume of spill	N/A

**~~EMERGENCY COORDINATOR - SECTION 2~~**

**QAM NOTIFICATION**

The responding Emergency Coordinator shall immediately notify the QAM

Individual Notified			
Time		Method	

**INTERNAL NOTIFICATIONS**

Person Notified	Title	Date	Time Notified	Notification Method

**DESCRIPTION**

Spilled Material	N/A 9/17/10
Generator ID and Waste Stream	
Type of surface	
Volume of spill	
Volume Determination Method	

## TRAINING OUTLINE

Training Subject	2010 Annual Drill Fire/Evacuation
Training Date(s)	9/17/10
Name of person completing outline	Jesse Garcia
Why was training conducted?	Annual Drill
Please provide an outline of topics discussed	<ul style="list-style-type: none"> <li>- Implement Contingency Plans</li> <li>Fire/Evacuation</li> <li>Post Evacuation Roll Taken</li> <li>Stand down from Contingency Plan</li> </ul>
Were hands-on activities or demonstrations performed or provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Evacuation Alarms Sounded
Were overheads, slides, or handout materials used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes please describe
Was a test given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe Drill
Were any procedures, regulations or other written materials referenced?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes please describe State Issued Part B Permit

**ATTENDANCE ROSTER**

Date <u>9/17/10</u>	Length of Class (Hours)
Instructor <u>Jesse Garcia</u>	Subject <u>Annual Drill Fire/Evacuation</u> <u>2010</u>

Printed Name	Initials	Employer	Department
Matt Ellich	ME	ES	HP
Keegan R. Johnson	KJP	ES	HP
Mike Martinez	MM	ES	MWT
Michael Turley	MT	ES	MWT
John E. Roach	JE	ES	MWR
Craig E. Jones	CE	ES	MWT
Jimmy Strimser	JS	ES	MWT
Dale Thorne	DT	ES	HP
Brett Davis	BD	ES	MWT
Tyson Lower ✓	TL	ES	MWT
Dustin Pirey	DP	ES	MW
<del>Ronan Hagan</del>	<del>RH</del>	<del>ES</del>	<del>MW</del>
Brandon Bure	BB	ES	MW
Craig Hildebrand	CH	ES	MW
Larry Davis	LD	ES	HP
Robert Van Renter ✓	RV	ES	MW
Brian Beynon ✓	BB	ES	MW
Don Hamp	DH	ES	OPS
Jesse Garcia	JG	ES	MW





# Memo

**To** File  
**From** Jesse Garcia, Director of Mixed Waste Operations  
**CC** Jeff Gardner VP Olive Facility  
Zeke Wilmot Safety and Health Manager  
Kelly Lewis Acting Safety and Health Manager  
**Date** 9/29/2010  
**Re** Annual Fire Drill at Mixed Waste Facility

---

In accordance with the State Issued Part B Permit Attachment II-4 section 7 we conducted our annual fire drill at the Mixed Waste Facility. The scenario consisted of a fire at the Mixed Waste Operations Building. The Contingency Plan was implemented as a drill and the Mixed Waste Facility evacuation alarms were activated.

Security was notified via cell phone and instructed to use the Send Word Now system to evacuate the Mixed Waste Facility to the Mixed Waste Truck Unloading Dock. All employees mustered at the announced location and role was taken. Once all employees were accounted we stood down from the drill.

A break down of events and evaluations items is listed below.

1217 Fire Alarms in MW Operations Building Sounded. Jesse Garcia the Emergency Coordinator notified Security and Implemented Contingency Plan drill stating a structural fire was identified in Mixed Waste Operations Building. There were no injuries and personnel were being evacuated to the Mixed Waste Truck Unloading Dock. Evacuation Alarms were activated from the MW Operations Building and the Storage Building. The Treatment building alarm was not manually activated because no employees were working in that location at the time of the drill. Employees instructed to muster at MW Truck Unloading Dock. Send word now alert began to be received by employees.

1222 Role was taken and every employee was accounted for.

1223 Stood down from Contingency Plan Drill and returned to normal operations.

## Proficiencies

- Employees mustered at designated point and evacuated quickly. Some employees were identified as not being in the Mixed Waste Facility at the time.

- Alarms were sounded to evacuate personnel

#### Deficiencies

- Some employees were slower than others at responding to the alarms but response time were adequate
- No survey meters were taken to the evacuation point for potential use Only one employee was in the restricted area at the time of the drill He was accounted for without having to evacuate him

The drill was effective and meets the State Issued Part B Permit requirements for an evacuation drill





2010 Commercial Group Condition Report Log - Clive

CR #	Date Initiated	Responsible Group	Trending Category	Summary of Event/Condition	Location	Assigned To	Originator	FN #	KPI	Significance level	RCA or ACA	Disposition/ CA Due Date	Disposition/ CA Status	Causal Factor Code(s)	Proposed Final Due Date	# Days open	Final Closure Date	Comments	QA Criteria (1-18)	Longevity
CL-CR10-082 ✓	8/11/2010	MW	RAD2/CP	On Tuesday, August 10, 2010, at approximately 1:15 p.m. the Contingency Plan was implemented at the EnergySolutions Clive Mixed Waste Facility due to a spill at MW.	Outside MWTB	Jesse Garcia	Curtis Kirk			3	NO	9/10/2010			8/31/2010		8/25/2010	closed (OT)		14
CL-CR10-083 ✓	8/13/2010	MW	RAD2/CP	On Friday, August 13, 2010, at approximately 8:30 a.m. the Contingency Plan was implemented at the EnergySolutions Clive Mixed Waste Facility due to a spill at MW bag house.	Outside MWTB	Craig Erickson	Craig Erickson			3	NO	9/10/2010	8/17/2010	1b	8/31/2010		8/31/2010	closed (OT)		18

reported - to DSHW?

2010 Condition Report Log - Clive Facility

CR #	Date Initiated	Responsible Group	Trending Category	Summary of Event/Condition	Location	Assigned To	Originator	Audit/ Surveillance, or Employee #	KPI	FN #	Date of Validation	Significance level (4/1/09)	Disposition/ CA Due Date	Disposition/ CA Status	RCA ACA ICA	Causal Factor Code(s)	CAP Due	CAP Due Date	CAP Received	CAP Approved	Proposed Final Due Date	# Days open	Final Closure Date	Comments	Longevity
CR10-016	✓ 2/19/2010	MW	RAD2/CP	Contingency Plan-Leaking Drum on MW storage pad	MW Storage Pad	Jesse Garcia	Jesse Garcia	NA	NA	CF10-008	2/25/2010	3	3/3/2010	2/22/2010	NA	1A	No	NA	NA	NA	3/6/2010		3/4/2010	Closed (OT)	13
CR10-024	✓ 3/19/2010	MW	RAD2/CP	Contingency Plan-Leaking Drum on MW storage pad	MW-T	Jesse Garcia	Jesse Garcia	NA	NA	CF10-010	3/22/2010	3	4/15/2010	3/19/2010	NA	1A	Yes	4/15/2010	3/25/2010	3/26/2010	3/31/2010		4/3/2010	Closed	15
CR10-054	✓ 5/28/2010	ENG	RAD2/CP	Contingency Plan MW Berm run over	MW	Dave Booth	Jesse Garcia	NA	NA	CF10-026	5/28/2010	3	6/28/2010	8/26/2010	ICA	4B	Yes		5/26/2010	8/26/2010	12/1/2010	122		Pending supporting closing documentation See CR	-40326

- reported to PS&W?  
  
- initial notification to PS&W

2009 Condition Report Log - Incoming Shipping Discrepancies @ the Clive Facility

CRSD #	Date Initiated	Category	Summary of Event/Condition	Location	Generator ID-Waste Stream-Shipping #	Bates #	Generator Name	# of occurrences (by generator & waste stream w/ like events)	GSAP (added 7/6/09)	ES the Generator (ES) Shipper (S) or Project Manager (PM)	Responsible BD Rep	Supporting TS Rep	Originator	Date of Validation	CAP	CAP Due Date	CAP Received	CAP Approved	Proposed Final Due Date	# Days open	Final Closure Date	Report able	QA Comments	TS/BD open status comments	Longevity
CRSD09-024	9/14/2009	LIQ/CP/RAD2	Contingency Plan implemented when waste like material was observed on flatbed. Additional box contained aqueous material >1%	MW	0421-20-0039	M10984	Perma-Fix Florida	1	0112001231	NA	Jose Jerez	Veronica Pitts	Jesse Garcia	9/17/2009	NO	NA	NA	NA	10/21/2009		9/25/2009	Yes	Closed (OT)		11



2009 Condition Report Log - Clive Facility

CR #	Date Initiated	Responsible Group	Trending Category	Summary of Event/Condition	Location	Assigned To	Originator	Audit/ Surveillance, or Employee #	KPI	Significance level (4/1/09)	CARB Review	CARB Date	RCA or ACA	Causal Factor Code(s)	CAP Due	CAP Due Date	CAP Received	CAP Approved	Proposed Final Due Date	# Days open	Final Closure Date	Comments
CR09-120	11/12/2009	MW	RAD2/CP	Contingency Plan implemented when ~2 oz oil discovered leaking on the MW Storage Pad	MW Storage Pad	Don Hamp	Don Hamp	NA	NA	3	No	NA	NA	NA	NO	NA	NA	NA	11/13/2009		11/13/2009	Closed (OT)

Attachment 8

ENERGY SOLUTIONS

Mixed Waste Daily Inspection (EC0351)

Form CL-MD-PR-200-F1

Rev. 1

## General Facility Inspection

Date: 8/10/10Time: 1300Inspector: Benson Beggs (Print)Benson Beggs (Signature)

Item description	Check one Acceptable		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Visually check sampling areas, holding areas, unloading areas, treatment areas, and storage areas for evidence of spills or leaks. If found outside of containment areas initiate the contingency plan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Contingency Plan today spill cleaned up			
Visually inspect all storage areas for any cracks greater than 1/8 of an inch. Notify the Director of MW Operations upon a discovery. Ensure that damaged areas are isolated from the rest of the storage area so that liquid accumulation from other areas shall not contact the damaged area.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visual check of MW cell for wind dispersal and dust generation problems. To be checked during episodes of higher wind)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	light wind			
Visually check the run-on and run-off systems/berms for proper operation. If there has been a storm event, check the cell area for integrity (deterioration and erosion), ponded liquids, precipitation run-off, and general function of the leachate system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the MW cell berm for deterioration and erosion. Visually check any water level on the inside of the berm to ensure it has not exceeded freeboard level.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
PCB waste inspection: Visually inspect for structural integrity, proper labeling (including O.O.S. Date) and leaks or stains. Visually check that leaking/stained or non-released shrink-wrapped PCB Articles are isolated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Reboxed Several PCB drums			
* The MW Pond liner system shall be free of any visible structural defects. Contact Director of MW Operations immediately if liner condition appears degraded in any way.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
* Visually inspect empty containers in storage areas to ensure that they clearly differentiate from containers of waste (i.e. aisle spacing, labeling, segregation, or other similar techniques).	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
* Visually inspect holding pads for 10 Day/48 Hour compliance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Director of MW Operations Review: CM 8/11/10Compliance Inspector: CRK 8/24/10

Page 1 of 6

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LNFH &amp; SOUTTRANS

Mixed Waste Daily Inspection (EC0351)

Form CL MD PR 200 F1

Rev 1

## Leachate Collection and Evaporation Tank System Operation

Date 8-10-10Time 1300Inspector Rose Dejean (Print)[Signature] (Signature)

Item description	Check one Acceptable		Observations	Date & Nature Of Immediate Corrective Action	Implement Corrective Action	Site manager Initial / Date
	YES	NO				
Using a measuring or pumping device visually check the leachate collection system for the presence of leachate. There should be < 1 ft of leachate in the uppermost collection pipe and no liquid in the lower two pipes. If necessary remove leachate until < 1 ft remain.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check leachate pipes caps and locks for deterioration.	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the evaporation tank system (including tanks secondary containment vault exterior welds seams coating and fixtures) for evidence of leaks corrosion cracks and deterioration. 125 150 175 200 225 250	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check and measure if necessary the levels in all of the evaporation tanks for required freeboard. At least 1 ft of freeboard must be maintained. 125 150 175 200 225 250	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually inspect the evaporation tanks alarm equipment to see if it is present and properly positioned. Visual alarms set at 2 feet. Audio alarms set at 15 m on all the tanks. 125 150 175 200 225 250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visual Alarm on tanks 225, 250, 150			

Director of MW Operations Review

[Signature] 8/11/10Compliance Inspector CPE 8/26/10

Page 2 of 8

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LEAP SOLUTIONS

Mixed Waste Daily Inspection (EC0351)

Form CL MD PR 200 F1

Rev 1

## Decontamination Tank system Operation

Date 8/10/10Time 1300Inspector Roger B. [Signature] (Print)[Signature] (Signature)

Item description	Check one Acceptable		Observation	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site Manager Initial / Date
	YES	NO				
Visually check the decontamination tank areas including all above ground portions of the tank and surrounding areas for evidence of leaks	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the Decontamination tank's exposed surface areas for corrosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
*Visually check and measure the freeboard in the tank farm At least 6 inches must be maintained at all times	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the Decontamination Tank's secondary containment vault exterior welds seams coating and fixtures for evidence of leaks corrosion cracks and deterioration	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Director of MW Operations Review [Signature] 8/10/10Compliance Inspector CEK 8/26/10

Page 3 of 6

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## Treatment Building Tank System Operation

Date: 8/10/10Inspector: Brian Davis (Print)Time: 1000Brian Davis (Signature)

Item description	Check one		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager initial / Date
	Acceptable					
	YES	NO				
Visually check the treatment building tank system areas (including tanks tank welds seams, secondary containment vault porthole and fixtures) for evidence of leaks, corrosion cracks and deterioration <u>Mixer 1</u> <u>Floor Sump</u> <u>Receiving</u> <u>Prim Shredder</u> <u>Sec/Tert Shredder</u> <u>Sizing Screen</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			
Visually check and measure (if necessary) levels in all the MW Treatment Building tanks for required freeboard (6 inches)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			
Visually check motors, belts hoses fluids grease packs, overfill equipment waste and reagent feed systems, on/off and other control mechanisms on all process equipment, including misc units, to see if they appear to be in working order or are properly managed to protect human health and the environment (an actual check of function is not needed) <u>Mixer 1</u> <u>Prim Shredder</u> <u>Tert/Sec Shredder</u> <u>Vibrating screen</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			
Visually check the floor sump to ensure that liquids are being removed and not allowed to accumulate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			
*Visually and manually test the CO LEL detectors/system for proper operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			
*Visually inspect all fire extinguishers for proper charge and tagged for all necessary inspections. Manually test all emergency showers and eyewash stations for proper water pressure and inspect for cleanliness. Verify all emergency/exit lights are functional	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ok			

Director of MW Operations Review QW 8/11/10Compliance Inspector CEK 8/26/10

ENVIRONMENTAL SOLUTIONS

Mixed Waste Daily Inspection (EC0351)

Form CL MD PR 200 F1

Rev 1

## Mixed Waste Operations Building Tank System Operation

Date: 8-10-10Inspector: Cory Pullham (Print)Time: 0830Cory Pullham (Signature)

Item description	Check one Acceptable		Observation	Date & Name Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Visually check the Operations building tank and surrounding areas for evidence of leaks damage or corrosion	✓		OK			
Visually check the floor surface for coating integrity cracks in the concrete or other concerns	✓		OK			
Visually check motors, belts hoses shields, grease packs overfill equipment, waste and reagent feed systems, on/off and other control mechanisms on all process equipment, including nusc units to see if they appear to be in working order or are properly managed to protect human health and the environment. (an actual check of function is not needed) Extruder Kinetic Mixer Sm Scale Mixer Drum Crusher	✓		OK			
Visually check the floor sump to ensure that liquids are being removed and not allowed to accumulate	✓		OK			
*Visually and manually test the CO LEL detectors/system for proper operation	✓		OK			
*Visually inspect all fire extinguishers for proper charge and tagged for all necessary inspections. Manually test all emergency showers and eyewash stations for proper water pressure and inspect for cleanliness. Verify all emergency/call lights are functional	✓		OK			

Director of MW Operations Review

OK 8/11/10Compliance Inspector CRK 8/26/10

Page 5 of 6

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PAPER SOLUTIONS

Mixed Waste Daily Inspection (EC0351)

Form CL MD PR 200 F1

Rev 1

## Thermal Desorption System

Date: 8/10/10Inspector: Brian B. Brown (Print)Time: 1:00

(Signature)

Item description	Check one Acceptable		Observations	Date & Nature Of Immediate Corrective Action	Log & Plan Corrective Action	Site Manager Initial / Date
	YES	NO				
Visually check the floor surface of the storage building for integrity and cracks in the concrete or any other concerns	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the thermal desorption system skids for liquid accumulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check the thermal desorption system for evidence of leaks, damage, or corrosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Check the amount of nitrogen in reserve to assure that at least 1200 cubic feet is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Visually check all motors, gears, feed and discharge systems and control mechanisms to see if they appear to be in working order (an actual check of the function of these items is not necessary)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
*Visually and manually test the CO detector/system for proper operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
*Visually inspect all fire extinguishers for proper charge and tagged for all necessary inspections. Manually test all emergency showers and eyewash stations for proper water pressure and inspect for cleanliness. Verify all emergency exit lights are functional	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Director of MW Operations Review

CM 8/11/10

Compliance Inspector

CRK 8/26/10

Page 6 of 6

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## Perimeter and General Facility

COPY

Date July 26 2010

Time 1100

Inspector Matci Wicks (Print)

*Matci Wicks* (Signature)

Item description	Check one		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Visually check the run on and run off berms for general berm integrity and for such items as plant growth rodent burrowing deterioration and erosion which has occurred	X		Vegetation growth was observed in run-off berms in the MW Cell			
Visually check the landfill for presence of precipitation run off or ponded liquids from precipitation events and for general function of the leachate system	X					
Visually and/or manually check fences gates facility entrance doors locks and other site security devices for presence of gaps (> 6 inches) down poles erosion vandalism or damage to the fence fabric fence posts gates etc Note any breaks gaps deterioration or damage	X					
Visually check warning signs and No Smoking signs for their presence visibility and legibility Signs shall be readable from 25 ft away	X		Several of the "Warning" signs on along the MW fence line are fading and should be replaced They are still visible within 25 ft			
Visually check access roads and intra facility roads for spills deterioration and erosion	X					

Director of MW Operations Review

*CM* 7/28/10

Compliance Inspector

*CRK* 8/10/10

**Perimeter and General Facility**

Date July 26 2010

Inspector Marc Wicks (Print)

Tunc 1100
 (Signature)

Item description	Check one Acceptable		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Perform a visual and audio check of the function of the external communication system (telephone) for proper operation	X					
Visually check to ensure that a current copy of the Contingency Plan and a list of emergency telephone numbers are posted or placed near each telephone	X					
Perform a visual manual and audio check of the function of overfill detection equipment on the Gray Water Tank	X					
Perform a visual manual and audio check of the function of overfill detection equipment on the evaporation tanks Visual alarms set at 2 ft and audio alarms set at 15 inches on all tanks 125 150 175 200 225 250	X		Tanks 225 & 250 visual alarms were activated			
Visually check and measure if necessary the depth of sludge in each evaporative tank unless there is over two inches of an ice layer No more than 8 inches of sludge is allowed 125 150 175 200 225 250	X					
Visually inspect the fire sprinkler system for obvious damage and to verify that the valves are open	X					

Director of MW Operations Review CM 7/29/10

Compliance Inspector CRK 8/10/10

**Container Storage**

Date July 26 2010

Time 1100

Inspector Marc Wicks (Print)

*[Signature]* (Signature)

Item description	Check one		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	Acceptable					
	YES	NO				
Visually inspect waste containers and 90 day containers for evidence of leaks holes corrosion and deterioration	X					
Visually inspect waste containers and 90 day containers to ensure that they are closed and properly labeled legibly containing the required information including the Out of Service ( O O S ) Date if applicable		X	9314 23 PM01136R & 9314 23 PM01131R drums are missing PCB labels 8007 18 L113049 bates label is torn and should be replaced 9036 02 100613A & 9314 23 PM01128 B 25 containers are missing a bates label on one side	Labels have been replaced 7/28/10		gm 7/28/10
Visually check and measure if necessary the minimum required aisle space of 2.5 feet between rows and containers Rows are allowed to be two pallets or two boxes wide		X	Seavans PLRU106545& PLRU129458 and PLRU132962 & PLRU091587 do not have adequate aisle spacing	Containers Adjusted as needed 7/28/10		gm 7/28/10
Visually ensure that containers are stacked no more than four items high and less than ten feet high	X					
Visually check that all containers are on pallets or have runners	X					

Director of MW Operations Review

*[Signature]* 7/28/10

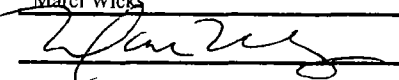
Compliance Inspector

*[Signature]* 8/10/10

**Container Storage / Disposed MACRO Waste Form Inspection**

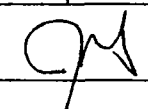
Date July 26 2010

Inspector Marci Wicks (Print)

Time 1100
 (Signature)

Item description	Check one Acceptable		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Check to ensure that incompatible wastes are properly separated by a minimum of ten feet	X					
Verify that spill control and clean up equipment are available including shovels over pack containers or extra containers and solidification materials	X					
Visually check the integrity of all portable containment devices in use. Devices must be designed and operated to drain and remove liquids or protect containers from contact with liquids. They must also be maintained free of cracks and gaps and be sufficiently impervious to contain liquid	X					
Exposed MACRO forms, capsules and vaults in the disposal cell meet acceptance criteria in Attachment II 1.5 Macroencapsulation Plan	X					

Director of MW Operations Review

 7/28/10

Compliance Inspector

CRK 8/10/10



# Safety and Emergency Equipment

CCPY

Date May 11 & 13 2010

Time 1000 & 1100

Inspector Marci Wicks (Print)  
[Signature] (Signature)

Item description	Check one		Observations	Date & Nature Of Immediate Corrective Action	Long Term Corrective Action	Site manager Initial / Date
	YES	NO				
Visually inspect PPE inventory including gloves boots coveralls hard hats goggles and respiratory protection equipment for general adequacy condition and expiration dates	X					
Visually inspect fire extinguishers for inspection tags expiration dates and adequate pressure		X	Fire Extinguisher in MW Decon Bay NW corner is missing the monthly inspection tag	Replaced Tags 5/14/10		OW 5/14/10
Test internal (radio) and external (telephone) communication systems for proper operation	X					
Perform a visual audio and manual check of the evacuation alarm systems for proper function This check shall be made at all alarm activation locations  Operations Bldg  Treatment Building - Mixer Platform  Treatment Building SE Exit Main door  Storage Building Observation Room  Storage Building Restricted Area	X					
Visually inspect first aid stations for adequate inventory	X					

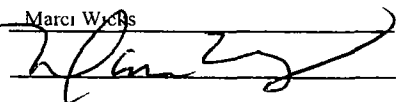
Director of MW Operations Review OW 5/14/10

Compliance Inspector CRK 5/27/10

### Safety and Emergency Equipment

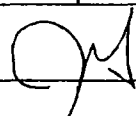
Date May 11 & 13 2010

Time 1000 & 1100

Inspector Marci Wick (Print)  
 (Signature)

Item description	Check one		Date & Nature Of Immediate Concave Action	Long Tenn Concective Action	Site manager Initiat / Date	
	Acceptable					
	YES	NO				
Visually check and measure if necessary water level in fire water storage tanks	X					
Check to see that the fire water delivery system at the treatment building and the operations building have been tested within the calendar year for function Ensure that a test is perfonned on these systems during each calendar year	X					
Visually and manually inspect external condition of and operation of safety showers and eye wash stations to verify adequate water supply pressure and flow	X					
Visually and manually check the emergency lights for proper function (in each building)		X	Emergency Exit light in the MW Maintenance Shop at east door is not functioning	Light Replaced 5/14/10		OK 5/14/10
Visually check the gate valves in the pump house to ensure that they are open pressure gauges indicate that the system is pressurized and the systems on button is illuminated	X					

Director of MW Operations Review

 5/14/10

Compliance Inspector

CRK 5/27/10



Safety and Health Department

CD08-0329

October 9, 2008

John Gollaher, Chief  
North Tooele County Fire District  
179 Country Club  
Stansbury Park, Utah  
801-250-0162

COPY

FILE  
CCRP LIBRARY

Re. Emergency Response Arrangements with Local Authorities (UAC R313-8.3.7)

Dear Mr. Gollaher:

Every 36 months, EnergySolutions, must invite the Tooele County Fire Department to tour our Chive Facility, or arrange for myself to visit with the Fire Department to familiarize the Fire Department with the Chive Facility's layout, associated hazards, properties of hazardous waste handled at the Chive Facility, places where facility personnel would normally be working, entrances to and roads inside the Chive Facility and possible evacuation routes. This information would be used, if needed in the future, to support emergency response activities at our facility.

As the Safety & Health Manager for EnergySolutions, I would like to extend this offer to the Tooele County Fire Department. Also, in accordance with the above cited regulation, I am requesting a formal response to this letter in order to document closure of this request. Please note that this is the second request we have made for a response.

Please call me at 1-801-649-2083 to schedule a visit or with any questions or concerns. Thank-you for your attention to this matter.

Sincerely,

10/9/2008  
D. Zaks T. Wilmot, CHMM, CSP

Safety & Health Manager

Attachment 9



UTD982598898  
HAND DELIVERED

NOV 29 2010

UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE  
2010.03685

CD10-0336

RECEIVED

NOV 24 2010

DEPARTMENT OF  
ENVIRONMENTAL QUALITY

November 29, 2010

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
P O Box 144880  
Salt Lake City, UT 84114-4880

Subject Wind Dispersal Sampling Report – Attachment II-10

Dear Mr Anderson

EnergySolutions, LLC (EPA ID No UTD982598898) hereby submits a report of the tri-annual wind dispersal monitoring event conducted in accordance with Attachment II-10, *Plan for Controlling Wind Dispersal*, of EnergySolutions State-issued Part B Permit. Twenty-four surface soil samples were collected on August 25, 2010, at the locations indicated on the attached site map. This sampling event is representative for the tri-annual period between 2008 and 2010.

In addition to the 24 soil samples, two background surface soil samples were collected from locations that were at least two miles from the Clive facility (noted but not shown on the attached map). These samples were collected to establish background concentrations for constituents of concern for comparison purposes. All sampling locations were surveyed and global positioning system (GPS) positions for all 26 sample locations are attached.

The area surrounding Section 32, T1S, R11W, was divided into 24 lots as indicated on the attached sample location map. Each lot represents approximately 75 acres. Sample locations were randomly chosen by gridding each lot and using a random number generator to select sample locations. Surface soil samples were collected in accordance with Section 8 of Attachment II-10. Physical location for each of the sample locations was made using odometers of vehicles and best-guess estimates based upon landmarks. As such, the samples for locations 6 and 13 were slightly outside of their allotted 75 acre areas, however, from an observation of the map, the sampling event encompassed the entire area around Section 32 and the intent of the sampling remained valid.

The wind dispersal plan requires that the soil samples be analyzed for total lead, total organic halogens (TOX), and polychlorinated biphenyls (PCBs). Current analytical

Mr Scott T Anderson  
November 29, 2010  
CD10-0336  
Page 2

methods do not allow a TOX analysis of a soil matrix, therefore, the organics were analyzed as extractable organic halogens (EOX) The soil samples were shipped to GEL Laboratories, LLC in Charleston, South Carolina for analysis of total lead, EOX, and PCB The analytical results are summarized in the attached table and report provided by GEL

Attachment 11-10 requires that all analytical results be compared to the background analytical results During the sampling event, two background soil samples were collected Sample "SW Bkgd" was collected approximately 2.1 miles south from Section 32 and even with the western property line (next to the military road) Sample "NE Bkgd" was collected approximately 0.5 miles north and 2.0 miles east of the northeast corner of Section 32

None of the samples reported detectable levels for EOX The previous sampling event (October 31, 2007) had three small detections for this parameter No trends can be observed from this data other than the conclusion that site operations have caused minimal to no organic contamination outside of the Section 32 boundaries

Only one of the samples detected PCBs, and this only slightly above the detection limit of the analytical method Sample # 15, located in Section 5 near the road just south of the Mixed Waste Landfill Cell reported an estimated PCB concentration of 3.30 µg/kg for Aroclor 1254 Previous sampling results did not detect PCBs in this lot, however, the concentration is very near the detection limit and may have been overlooked in previous sampling events It is unlikely that this minimal PCB detection is related to wind dispersal of waste from the Clive facility

All 26 samples detected lead at concentrations above quantitation limits Total lead results ranged from 6.71 mg/kg to 14.70 mg/kg The background total lead samples were found to be 11.70 mg/kg (Sample "SW Bkgd") and 9.79 mg/kg (Sample "NE Bkgd") The highest lead concentration was detected in lot 2, located northwest of the Clive facility and in close proximity to the paved road coming to the facility These results are comparable to results from the previous wind dispersal monitoring event that detected lead results ranging from 7.65 mg/kg to 17.80 mg/kg The detected concentrations are within the natural variability of the surface soils in the area



Mr Scott T Anderson  
November 29, 2010  
CD10-0336  
Page 3

Previous wind dispersal samples were collected in August, 2001 for the three-year period from 1999 to 2001, in October, 2004 for the three-year period from 2002-2004, and in October, 2007 for the three-year period from 2005-2007. Reports of these previous events were submitted in letters dated January 28, 2002, January 10, 2005, and December 4, 2007. The next sampling event will be collected for the three year period from 2011 to 2013. EnergySolutions anticipates collecting the next wind dispersal samples in 2013.

Should there be any questions regarding this report, please contact me at 649-2144

Sincerely,

A handwritten signature in cursive script that reads "Timothy L. Orton".

Timothy L. Orton, P E  
Environmental Engineer

cc Otis Willoughby, DSHW

Enclosures

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

# EnergySolutions

Company address  
City State ZIP Code  
Phone Number / Fax Number

Client Environmental Trj-Annual

Work Order Name

ENVIRO PCBS 8 25 10

First Access

5/25/10 9 22 AM

Last Access

8/25/10 9 22 AM

Operator Name

Jeremy H

Site Name

EnergySolutions Clive Site (10-21-08)

Design

Unit

(US Survey Feet)

Total Number of Points

26

Total Time

0 02 05

Points per Minute

12 45

Sub Type	Point Name	Line Name	Point Code	Measured N	Measured E	Measured Elv	Precision H	Precision V	Precision Type	Measured Station	Measured Offset	Antenna Ht	Local Time	Date
Point	103		3	15630 847	10597 991	4271 874	0 056	0 079	RTK			6 562	9 36 04 AM	8/25/2010
Point	102		2	16843 547	9489 599	4270 764	0 033	0 043	RTK			6 562	9 43 58 AM	8/25/2010
Point	101		1	17908 014	8328 444	4271 868	0 039	0 044	RTK			6 562	9 53 03 AM	8/25/2010
Point	104		4	16660 008	11956 172	4274 739	0 028	0 031	RTK			6 562	10 02 51 AM	8/25/2010
Point	105		5	16697 851	13041 733	4278 190	0 040	0 043	RTK			6 562	10 11 24 AM	8/25/2010
Point	106		6	18391 345	14465 588	4279 775	0 031	0 033	RTK			6 562	10 21 13 AM	8/25/2010
Point	107	EASTBKG		17992 815	25896 100	4361 839	0 061	0 082	RTK			6 562	10 36 39 AM	8/25/2010
Point	108		7	17724 921	17174 734	4281 865	0 033	0 052	RTK			6 562	10 52 59 AM	8/25/2010
Point	109		8	16447 256	16816 332	4280 519	0 031	0 049	RTK			6 562	10 59 41 AM	8/25/2010
Point	110		9	15117 548	16583 407	4278 780	0 041	0 067	RTK			6 562	11 07 10 AM	8/25/2010
Point	111		10	13617 208	16328 054	4278 049	0 031	0 058	RTK			6 562	11 14 30 AM	8/25/2010
Point	112		11	11656 527	16046 393	4276 663	0 048	0 085	RTK			6 562	11 23 16 AM	8/25/2010
Point	113		12	10773 927	16020 644	4275 920	0 046	0 073	RTK			6 562	11 29 25 AM	8/25/2010
Point	114		13	9247 803	16517 813	4277 780	0 019	0 037	RTK			6 562	11 35 55 AM	8/25/2010
Point	115		14	9449 494	15465 740	4274 899	0 021	0 038	RTK			6 562	11 42 01 AM	8/25/2010
Point	116	SOUTHBKG		1050 024	10145 234	4269 424	0 029	0 060	RTK			6 562	11 57 57 AM	8/25/2010
Point	119		19	7687 186	7907 973	4266 866	0 036	0 058	RTK			6 562	12 11 00 PM	8/25/2010
Point	120		20	9243 932	8008 125	4266 225	0 021	0 039	RTK			6 562	12 18 58 PM	8/25/2010
Point	121		15	9752 235	14358 959	4274 399	0 046	0 074	RTK			6 562	12 26 15 PM	8/25/2010
Point	122		18	9229 301	13493 741	4272 573	0 022	0 036	RTK			6 562	12 31 34 PM	8/25/2010
Point	123		17	8978 617	12126 737	4269 478	0 024	0 036	RTK			6 562	12 37 25 PM	8/25/2010
Point	124		18	9118 082	11198 422	4268 536	0 018	0 029	RTK			6 562	12 42 00 PM	8/25/2010
Point	125		21	10886 000	8532 127	4264 720	0 016	0 027	RTK			6 562	1 00 47 PM	8/25/2010
Point	126		22	11833 411	8614 487	4264 543	0 029	0 044	RTK			6 562	1 14 40 PM	8/25/2010
Point	127		23	12710 991	9568 580	4266 616	0 034	0 050	RTK			6 562	1 19 40 PM	8/25/2010
Point	128		24	14223 759	7380 291	4265 138	0 017	0 026	RTK			6 562	1 25 04 PM	8/25/2010

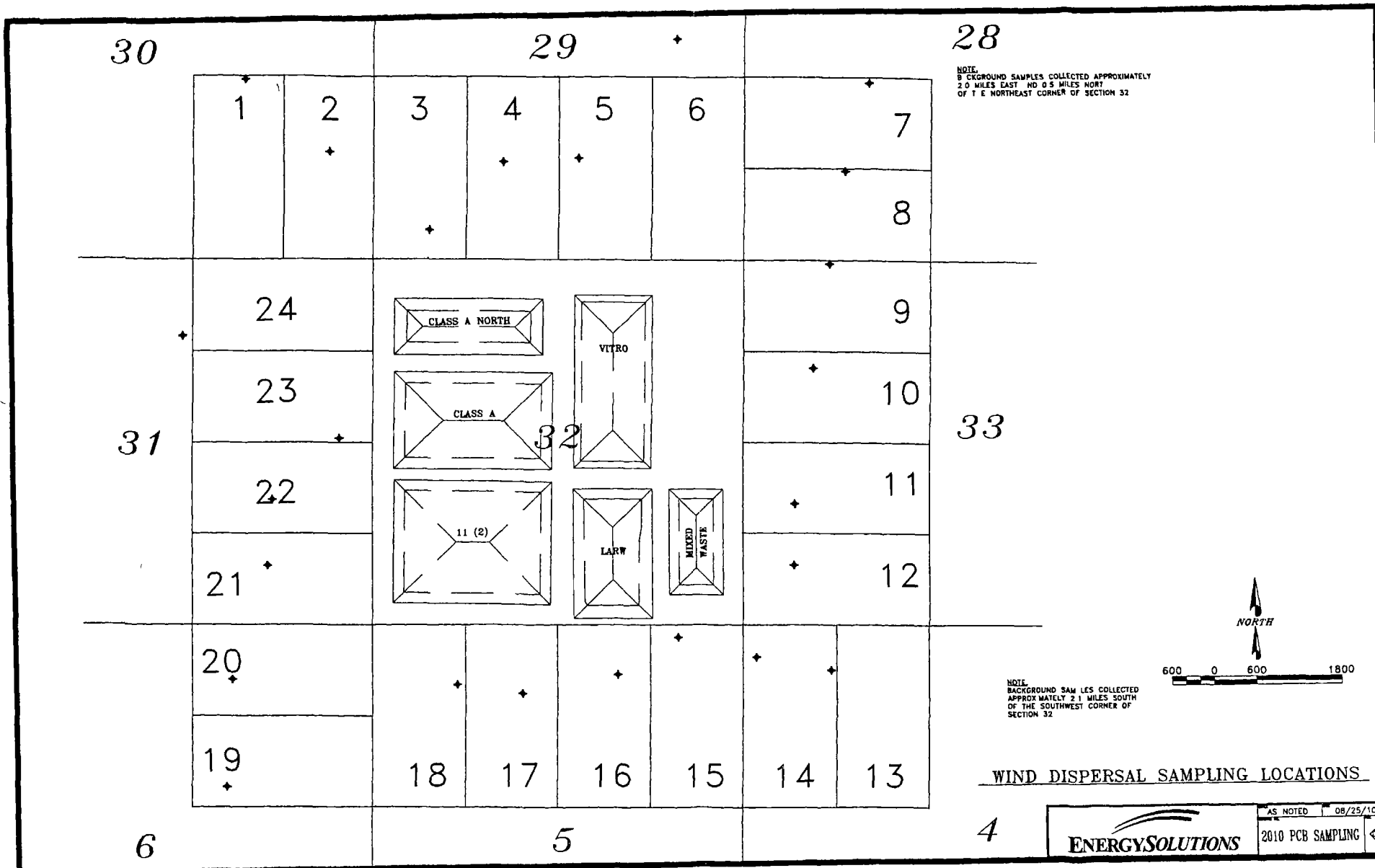


## August 25, 2010 Soil Sampling Summary

Sample Identification	Lead (mg/kg)	EOX (mg/kg)	PCB (µg/kg)						
			Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
1	6.90	ND	ND	ND	ND	ND	ND	ND	ND
2	14.70	ND	ND	ND	ND	ND	ND	ND	ND
3	11.30	ND	ND	ND	ND	ND	ND	ND	ND
4	11.00	ND	ND	ND	ND	ND	ND	ND	ND
5	7.87	ND	ND	ND	ND	ND	ND	ND	ND
6	13.70	ND	ND	ND	ND	ND	ND	ND	ND
7	14.20	ND	ND	ND	ND	ND	ND	ND	ND
8	13.30	ND	ND	ND	ND	ND	ND	ND	ND
9	13.40	ND	ND	ND	ND	ND	ND	ND	ND
10	9.55	ND	ND	ND	ND	ND	ND	ND	ND
11	8.16	ND	ND	ND	ND	ND	ND	ND	ND
12	9.16	ND	ND	ND	ND	ND	ND	ND	ND
13	9.89	ND	ND	ND	ND	ND	ND	ND	ND
14	8.93	ND	ND	ND	ND	ND	ND	ND	ND
15	7.53	ND	ND	ND	ND	ND	ND	3.30 J	ND
16	7.03	ND	ND	ND	ND	ND	ND	ND	ND
17	7.70	ND	ND	ND	ND	ND	ND	ND	ND
18	10.30	ND	ND	ND	ND	ND	ND	ND	ND
19	8.47	ND	ND	ND	ND	ND	ND	ND	ND
20	6.71	ND	ND	ND	ND	ND	ND	ND	ND
21	8.58	ND	ND	ND	ND	ND	ND	ND	ND
22	6.26	ND	ND	ND	ND	ND	ND	ND	ND
23	6.54	ND	ND	ND	ND	ND	ND	ND	ND
24	6.61	ND	ND	ND	ND	ND	ND	ND	ND
SW Bkgd	11.70	ND	ND	ND	ND	ND	ND	ND	ND
NE Bkgd	9.79	ND	ND	ND	ND	ND	ND	ND	ND

ND Below detection limits

J The result was greater than the detection limit but below the reporting limit Value is an estimate only





September 16, 2010

Mr Allan Erichsen  
EnergySolutions,LLC  
423 West 300 South  
Suite 200  
Salt Lake City Utah 84101

Re EUI 12 Environmental  
Monitoring - PCB  
Work Order 259899  
SDG EUI-7839

Purchase  
Order 10 EUI-12  
Chain of Custody 54462

Dear Mr Erichsen

GEL Laboratories LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 01 2010 Our policy is to provide high quality personalized analytical services to enable you to meet your analytical needs on time every time

This original data report has been prepared and reviewed in accordance with GEL s standard operating procedures We trust that you will find everything in order and to your satisfaction If you have any questions, please do not hesitate to call me at (843)556-8171 extension 4707

Sincerely

For LaToya Hughes  
Project Manager

Enclosures

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

CARE004 EnergySolutions, LLC

Client SDG EUI-7839 GEL Work Order 259899

The Qualifiers in this report are defined as follows

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank
- B Metals—Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N Metals—The Matrix spike sample recovery is not within specified control limits
- U Analyte was analyzed for but not detected above the MDL, MDA, or LOD

Where the analytical method has been performed under NELAP certification the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis

The designation ND if present, appears in the result column when the analyte concentration is not detected above the detection limit

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures Please direct any questions to your Project Manager LaToya Hughes

Reviewed by

Amanda J. Prosser

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Ericksen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 1 154 4 082510-01  
Sample ID 259899001  
Matrix Solid  
Collect Date 25-AUG 10 09 50  
Receive Date 01 SEP 10  
Collector Client  
Project Client ID CARE EUI 12  
CARE004

Parameter	Quabfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1140	1024291	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received"											
Lead		6900	1190	4770	ug/kg	5	HSC	09/14/10	2024	1021242	2
Semi-Volatiles PCB											
SW846 3550C/8082A PCB Solid "As Received"											
Aroclor 1016	U	ND	3 27	9 83	ug/kg	1	YSI	09/13/10	0908	1023328	3
Aroclor 1221	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1232	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1242	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1248	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1254	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1260	U	ND	3 27	9 83	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SWS46 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	14 1 ug/kg	19 7	71 9	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	15 1 ug/kg	19 7	76 6	(16%-126%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 2 148 1 082510 02  
Sample ID 259899002  
Matrix Solid  
Collect Date 25 AUG 10 09 42  
Receive Date 01 SEP-10  
Collector Client

Project CARE EUI 12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) 'As Received'</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1240	1024291	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid 'As Received'</i>											
Lead		14700	1230	4910	ug/kg	5	HSC	09/14/10	2029	1021242	2
<b>Semi-Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid 'As Received'</i>											
Aroclor 1016	U	ND	3 29	9 89	ug/kg	1	YS1	09/13/10	0946	1023328	3
Aroclor 1221	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1232	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1242	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1248	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1254	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1260	U	ND	3 29	9 89	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	13 0 ug/kg	19 8	65 8	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	14 5 ug/kg	19 8	73 4	(16% 126%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr. Allan Enchsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 3 142 6 082510-03  
Sample ID 259899003  
Matrix Solid  
Collect Date 25-AUG 10 09 30  
Receive Date 01 SEP 10  
Collector Client  
Project Client ID CARE EUI-12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received											
Extractable Organic Halogens	U	ND	25.0	75.0	mg/kg	1	BYV1	09/16/10	1250	1024291	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received											
Lead		11300	1230	4910	ug/kg	5	HSC	09/14/10	2034	1021242	2
Semi-Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3.27	9.82	ug/kg	1	YS1	09/13/10	0959	1023328	3
Aroclor 1221	U	ND	3.27	9.82	ug/kg	1					
Aroclor 1232	U	ND	3.27	9.82	ug/kg	1					
Aroclor 1242	U	ND	3.27	9.82	ug/kg	1					
Aroclor 1248	U	ND	3.27	9.82	ug/kg	1					
Aroclor 1254	U	ND	3.27	9.82	ug/kg	1					
Aroclor 1260	U	ND	3.27	9.82	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	11.5 ug/kg	19.6	58.3	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	12.1 ug/kg	19.6	61.5	(16% 126%)

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SO 29407 (843) 556 8171 www.gel.com

**Certificate of Analysis**

Company EnergySolutions LLC  
 Address 423 West 300 South  
 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr Allan Erichsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 4 124 7 082510 04  
 Sample ID 259899004  
 Matrix Solid  
 Collect Date 25-AUG-10 10 01  
 Receive Date 01 SEP 10  
 Collector Client

Project Client ID CARE EUI-12  
 CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW8023 TOX (Extract Halogen) "As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1300	1024291	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		11000	1140	4570	ug/kg	5	HSC	09/14/10	2040	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid "As Received"</i>											
Aroclor 1016	U	ND	3 28	9 84	ug/kg	1	YSI	09/13/10	1011	1023328	3
Aroclor 1221	U	ND	3 28	9 84	ug/kg	1					
Aroclor 1232	U	ND	3 28	9 84	ug/kg	1					
Aroclor 1242	U	ND	3 28	9 84	ug/kg	1					
Aroclor 1248	U	ND	3 28	9 84	ug/kg	1					
Aroclor 1254	U	ND	3 28	9 84	ug/kg	1					
Aroclor 1260	U	ND	3 28	9 84	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/15/10	1300	1024288

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid "As Received"	13 5 ug/kg	19 7	68 5	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid "As Received"	13 8 ug/kg	19 7	70 3	(16% 126%)



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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 5 164 8 082510-05  
Sample ID 259899005  
Matrix Solid  
Collect Date 25 AUG 10 10 08  
Receive Date 01-SEP 10  
Collector Chent  
Project Client ID CARE EUI 12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract. Halogen) As Received											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1310	1024291	1
Metals Analysis-ICP											
SW846 3050B/6010C Solid As Received											
Lead		7870	1250	4990	ug/kg	5	HSC	09/14/10	2045	1021242	2
Semi-Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3 28	9 85	ug/kg	1	YSI	09/13/10	1024	1023328	3
Aroclor 1221	U	ND	3 28	9 85	ug/kg	1					
Aroclor 1232	U	ND	3 28	9 85	ug/kg	1					
Aroclor 1242	U	ND	3 28	9 85	ug/kg	1					
Aroclor 1248	U	ND	3 28	9 85	ug/kg	1					
Aroclor 1254	U	ND	3 28	9 85	ug/kg	1					
Aroclor 1260	U	ND	3 28	9 85	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cnix	SW846 3550C/8082A PCB Solid As Received	10 3 ug/kg	19 7	52 3	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	11 9 ug/kg	19 7	60 5	(16%-126%)

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 555-8171 www.gel.com

**Certificate of Analysis**

Company EnergySolutions LLC  
 Address 423 West 300 South  
 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr. Allan Erichsen  
 Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SS10WD 6 158 8 082510-06  
 Sample ID 259899006  
 Matrix Solid  
 Collect Date 25-AUG 10 10 17  
 Receive Date 01 SEP 10  
 Collector Client  
 Project Client ID CARE EUI 12  
 CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) "As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1320	1024291	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		13700	1160	4620	ug/kg	5	HSC	09/14/10	2050	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid "As Received"</i>											
Aroclor 1016	U	ND	3 27	9 81	ug/kg	1	YSI	09/13/10	1037	1023328	3
Aroclor 1221	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1232	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1242	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1248	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1254	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1260	U	ND	3 27	9 81	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/15/10	1300	1024288

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	14 9 ug/kg	19 6	76 1	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	16 9 ug/kg	19 6	86 1	(16%-126%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 www.gel.com

## Certificate of Analysis

Company Energy Solutions, LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr. Allan Erichsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 7 159 8 082510-07  
Sample ID 259899007  
Matrix Solid  
Collect Date 25 AUG 10 10 51  
Receive Date 01 SEP 10  
Collector Client

Project Client ID CARE EUI 12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) "As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1330	1024291	1
Metals Analysis ICP											
SW846 3050B/6010C Solid "As Received"											
Lead		14200	1170	4670	ug/kg	5	HSC	09/14/10	2055	1021242	2
Semi Volatdes PCB											
SW846 3550C/8082A PCB Solid "As Received"											
Aroclor-1016	U	ND	3 30	9 90	ug/kg	1	YSI	09/13/10	1110	1023328	3
Aroclor 1221	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 90	ug/kg	1					
Aroclor-1242	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1248	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 90	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cinx	SW846 3550C/8082A PCB Solid As Received	12 9 ug/kg	19 8	65 2	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	14 4 ug/kg	19 8	72 5	(16% 126%)

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 (843) 556-8171 www.gel.com

**Certificate of Analysis**

Company EnergySolutions,LLC  
 Address 423 West 300 South  
 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr Allan Erichsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 8 126 9 082510 08  
 Sample ID 259899008  
 Matrix Solid  
 Collect Date 25 AUG-10 10 58  
 Receive Date 01 SEP 10  
 Collector Chent

Project CARE EUI-12  
 Chent ID CARE004

Parameter	Quabfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1340	1024291	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received											
Lead		13300	1210	4850	ug/kg	5	HSC	09/14/10	2101	1021242	2
Senu Volatiles-PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3 29	9 87	ug/kg	1	YS1	09/13/10	1123	1023328	3
Aroclor 1221	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1232	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1242	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1248	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1254	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1260	U	ND	3 29	9 87	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/15/10	1300	1024288

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	12 1 ug/kg	19 7	61 2	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13 7 ug/kg	19 7	69 4	(16% 126%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr. Allan Erichsen  
Project: EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 9 143 0 082510 09  
Sample ID 259899009  
Matrix Solid  
Collect Date 25-AUC 10 11 05  
Receive Date 01 SEP 10  
Collector Client

Project CARE EUI-12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1350	1024291	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid As Received</i>											
Lead		13400	1200	4790	ug/kg	5	HSC	09/14/10	2106	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received</i>											
Aroclor-1016	U	ND	3 27	9 81	ug/kg	1	YS1	09/13/10	1136	1023328	3
Aroclor 1221	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1232	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1242	U	ND	3 27	9 81	ug/kg	1					
Aroclor-1248	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1254	U	ND	3 27	9 81	ug/kg	1					
Aroclor 1260	U	ND	3 27	9 81	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	10 1 ug/kg	19 6	51 3	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	10 7 ug/kg	19 6	54 6	(16%-126%)

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## Certificate of Analysis

Company EnergySolutions,LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 10 157 2 082510 10  
Sample ID 259899010  
Matrix Solid  
Collect Date 25 AUG 10 11 12  
Receive Date 01-SEP 10  
Collector Client  
Project CARE EUI 12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1400	1024291	1
Metals Analysis ICP											
SW846 3050B/6010C Solid "As Received"											
Lead		9550	1190	4770	ug/kg	5	HSC	09/14/10	2130	1021242	2
Semi Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received"											
Aroclor 1016	U	ND	3 30	9 92	ug/kg	1	YSI	09/13/10	1148	1023328	3
Aroclor 1221	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1242	U	ND	3 30	9 92	ug/kg	1					
Aroclor-1248	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 92	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/15/10	1300	1024288

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	11 6 ug/kg	19 8	58 3	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13 1 ug/kg	19 8	66 0	(16% 126%)

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## Certificate of Analysis

Company EnergySolutions,LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI-12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 11 158 3 082510 11  
Sample ID 259899011  
Matrix Solid  
Collect Date 25-AUC-10 11 21  
Receive Date 01-SEP 10  
Collector Client  
Project - CARE EUI-12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) "As Received"											
Extractable Organic Halogens	U	ND	25.0	75.0	mg/kg	1	BYV1	09/16/10	1330	1025162	1
Metals Analysis ICP											
SW846 3050B/6010C Solid "As Received"											
Lead		8160	1230	4910	ug/kg	5	HSC	09/14/10	2135	1021242	2
Semi Volatiles PCB											
SW846 3550C/8082A PCB Solid "As Received"											
Aroclor 1016	U	ND	3.31	9.95	ug/kg	1	YS1	09/13/10	1201	1023328	3
Aroclor 1221	U	ND	3.31	9.95	ug/kg	1					
Aroclor 1232	U	ND	3.31	9.95	ug/kg	1					
Aroclor 1242	U	ND	3.31	9.95	ug/kg	1					
Aroclor 1248	U	ND	3.31	9.95	ug/kg	1					
Aroclor 1254	U	ND	3.31	9.95	ug/kg	1					
Aroclor 1260	U	ND	3.31	9.95	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Tune	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cinx	SW846 3550C/8082A PCB Solid As Received	11.0 ug/kg	19.9	55.5	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	12.0 ug/kg	19.9	60.3	(16%-126%)

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**Certificate of Analysis**

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 Address 423 West 300 South  
 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr. Allan Erichsen  
 Project EUI-12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SS10WD 12 153 5 082510 12  
 Sample ID 259899012  
 Matrix Solid  
 Collect Date 25 AUG 10 11 27  
 Receive Date 01 SEP 10  
 Collector Chent

Project CARE EUI-12  
 Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received"</i>											
Extractable Organic Halogens	U	ND	25.0	75.0	mg/kg	1	BYV1	09/16/10	1340	1025162	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		9160	1190	4750	ug/kg	5	HSC	09/14/10	2140	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received"</i>											
Aroclor 1016	U	ND	3.32	9.98	ug/kg	1	YS1	09/13/10	1213	1023328	3
Aroclor 1221	U	ND	3.32	9.98	ug/kg	1					
Aroclor 1232	U	ND	3.32	9.98	ug/kg	1					
Aroclor 1242	U	ND	3.32	9.98	ug/kg	1					
Aroclor 1248	U	ND	3.32	9.98	ug/kg	1					
Aroclor 1254	U	ND	3.32	9.98	ug/kg	1					
Aroclor 1260	U	ND	3.32	9.98	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cinx	SW846 3550C/8082A PCB Solid As Received"	13.7 ug/kg	20.0	68.6	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	15.0 ug/kg	20.0	75.0	(16% 126%)



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 Contact Mr Allan Erichsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SS10WD 13 145 7 082510 13  
 Sample ID 259899013  
 Matrix Solid  
 Collect Date 25-AUG 10 11 34  
 Receive Date 01 SEP 10  
 Collector Ghera

Project CARE EUI 12  
 Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1350	1025162	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid As Received</i>											
Lead		9890	1240	4940	ug/kg	5	HSC	09/14/10	2145	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received</i>											
Aroclor 1016	U	ND	3 30	9 90	ug/kg	1	YS1	09/13/10	1226	1023328	3
Aroclor 1221	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1242	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1248	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 90	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery %	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	14 1 ug/kg	19 8	71 5	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	16 2 ug/kg	19 8	81 6	(16%-126%)

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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI-12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 14 163 1 082510 14  
Sample ID 259899014  
Matrix Solid  
Collect Date 25 AUG 10 11 40  
Receive Date 01-SEP 10  
Collector Client

Project Ghent ID CARE EUI 12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received											
Extractable Organic Halogens	U	ND	25.0	75.0	mg/kg	1	BYV1	09/16/10	1400	1025162	1
Metals Analysis-ICP											
SW846 3050B/6010C Solid As Received											
Lead		8930	1180	4710	ug/kg	5	HSC	09/14/10	2151	1021242	2
Semi-Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3.29	9.89	ug/kg	1	YS1	09/13/10	1239	1023328	3
Aroclor 1221	U	ND	3.29	9.89	ug/kg	1					
Aroclor 1232	U	ND	3.29	9.89	ug/kg	1					
Aroclor 1242	U	ND	3.29	9.89	ug/kg	1					
Aroclor 1248	U	ND	3.29	9.89	ug/kg	1					
Aroclor 1254	U	ND	3.29	9.89	ug/kg	1					
Aroclor 1260	U	ND	3.29	9.89	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cinx	SW846 3550C/8082A PCB Solid As Received	12.6 ug/kg	19.8	63.7	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13.7 ug/kg	19.6	69.5	(16%-126%)

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Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
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Contact Mr Allan Enchsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SS10WD 15 150 7 082510 15  
Sample ID 259899015  
Matrix Solid  
Collect Date 25 AUG 10 12 24  
Receive Date 01 SEP 10  
Collector Client  
Project CARE EUI-12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) "As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1235	1025162	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received											
Lead		7530	1240	4940	ug/kg	5	HSC	09/14/10	2156	1021242	2
Semi Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received"											
Aroclor 1016	U	ND	3 28	9 86	ug/kg	1	YS1	09/13/10	1251	1023328	3
Aroclor 1221	U	ND	3 28	9 86	ug/kg	1					
Aroclor 1232	U	ND	3 28	9 86	ug/kg	1					
Aroclor 1242	U	ND	3 28	9 86	ug/kg	1					
Aroclor 1248	U	ND	3 28	9 86	ug/kg	1					
Aroclor 1254	J	3 30	3 28	9 86	ug/kg	1					
Aroclor 1260	U	ND	3 28	9 86	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cnix	SW846 3550C/8082A PCB Solid As Received"	13 6 ug/kg	19 7	69 1	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	14 5 ug/kg	19 7	73 6	(16% 126%)

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 Address 423 West 300 South  
 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr Allan Enchsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 16 147 4 082510-16  
 Sample ID 259899016  
 Matrx Solid  
 Collect Date 25-AUG 10 12 30  
 Receive Date 01 SEP 10  
 Collector Client  
 Project CARE EUI 12  
 Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) "As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1410	1025162	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		7030	1150	4600	ug/kg	5	HSC	09/14/10	2201	1021242	2
<b>Semi-Volatiles-PCB</b>											
<i>SW846 3550C/8082A PCB Solid "As Received"</i>											
Aroclor 1016	U	ND	3 30	9 90	ug/kg	1	YSI	09/13/10	1304	1023328	3
Aroclor 1221	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1242	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1248	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 90	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/16/10	1200	1025092

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	12 9 ug/kg	19 8	65 3	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13 3 ug/kg	19 8	67 4	(16% 126%)

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Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 17 151 7 082510-17  
Sample ID 259899017  
Matrix Solid  
Collect Date 25 AUG-10 12 36  
Receive Date 01 SEP-10  
Collector Client

Protect CARE EUI 12  
Ghent ID CARE004

Parameter	Quahfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1420	1025162	1
Metals Analysis-ICP											
SW846 3050B/6010C Solid As Received											
Lead		7700	1240	4950	ug/kg	5	HSC	09/14/10	2206	1021242	2
Semi-Volatdes PCB											
SW846 3550C/8082A PCB Solid As Received"											
Aroclor 1016	U	ND	3 31	9 94	ug/kg	1	YS1	09/13/10	1338	1023328	3
Aroclor 1221	U	ND	3 31	9 94	ug/kg	1					
Aroclor 1232	U	ND	3 31	9 94	ug/kg	1					
Aroclor 1242	U	ND	3 31	9 94	ug/kg	1					
Aroclor 1248	U	ND	3 31	9 94	ug/kg	1					
Aroclor 1254	U	ND	3 31	9 94	ug/kg	1					
Aroclor 1260	U	ND	3 31	9 94	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Exnactable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid "As Received	14 3 ug/kg	19 9	72 0	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	14 7 ug/kg	19 9	73 8	(16% 126%)

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Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Client Sample ID SSI0WD 18 141 6 082510-18  
Sample ID 259899018  
Matrix Solid  
Collect Date 25 AUC 10 12 41  
Receive Date 01 SEP 10  
Collector Client

Project CARE EUI 12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1430	1025162	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		10300	1250	4980	ug/kg	5	HSC	09/14/10	2212	1021242	2
<b>Semi Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received</i>											
Aroclor 1016	U	ND	3 31	9 95	ug/kg	1	YSI	09/13/10	1350	1023328	3
Aroclor 1221	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1232	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1242	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1248	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1254	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1260	U	ND	3 31	9 95	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021239
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	12 3 ug/kg	19 9	62 0	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received"	12 7 ug/kg	19 9	63 7	(16%-126%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 19 151 1 082510 19  
Sample ID 259899019  
Matrix Solid  
Collect Date 25 AUG 10 12 09  
Receive Date 01 SEP 10  
Collector Client  
Project Client ID CARE EUI 12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1440	1025162	1
<b>Metals Analysis ICP</b>											
<i>SW846 3050B/6010C Solid As Received"</i>											
Lead		8470	239	958	ug/kg	1	JWJ	09/10/10	0758	1021246	2
<b>Semi-Volatiles PCB</b>											
<i>SW846 3550C/8082A PCB Solid "As Received"</i>											
Aroclor 1016	U	ND	3 30	9 92	ug/kg	1	YS1	09/13/10	1403	1023328	3
Aroclor 1221	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1242	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1248	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 92	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 92	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	11 7 ug/kg	19 8	58 8	(23% 103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	12 5 ug/kg	19 8	63 1	(16%-126%)

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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16, 2010

Client Sample ID SSI0WD 20 157 3 082510 20  
Sample ID 259899020  
Matrix Solid  
Collect Date 25 AUC 10 12 15  
Receive Date 01 SEP 10  
Collector Client

Project CARE EUI-12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW8023 TOX (Extract Halogen) As Received											
Extractable Organic Halogens	U	ND	25.0	75.0	mg/kg	1	BYVI	09/16/10	1450	1025162	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received											
Lead		6710	249	996	ug/kg	1	JWJ	09/10/10	0827	1021246	2
Semi Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3.32	9.97	ug/kg	1	YSI	09/13/10	1415	1023328	3
Aroclor 1221	U	ND	3.32	9.97	ug/kg	1					
Aroclor 1232	U	ND	3.32	9.97	ug/kg	1					
Aroclor 1242	U	ND	3.32	9.97	ug/kg	1					
Aroclor 1248	U	ND	3.32	9.97	ug/kg	1					
Aroclor 1254	U	ND	3.32	9.97	ug/kg	1					
Aroclor 1260	U	ND	3.32	9.97	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1841	1023327
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3550C/8082A PCB Solid As Received	13.5 ug/kg	19.9	67.5	(23%-103%)
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	15.4 ug/kg	19.9	77.2	(16%-126%)



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Company EnergySolutions,LLC  
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 Suite 200  
 Salt Lake City Utah 84101  
 Contact Mr Allan Erichsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Chent Sample ID SSI0WD 21 137 5 082510 21  
 Sample ID 259899021  
 Matrix Solid  
 Collect Date 25 AUC 10 12 51  
 Receive Date 01 SEP 10  
 Collector Chent

Project CARE EUI 12  
 Chent ID CARE004

Parameter	Quabfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) As Received</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1500	1025162	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid As Received</i>											
Lead		8580	250	1000	ug/kg	1	JWJ	09/10/10	0830	1021246	2
<b>Semi-Volatiles-PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received</i>											
Aroclor 1016	U	ND	3 31	9 95	ug/kg	1	JAOC	09/13/10	1101	1023330	3
Aroclor 1221	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1232	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1242	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1248	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1254	U	ND	3 31	9 95	ug/kg	1					
Aroclor 1260	U	ND	3 31	9 95	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	12 1 ug/kg	19 9	60 6	(16% 126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	9 81 ug/kg	19 9	49 3	(23% 103%)

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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUI 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SS10WD 22 153 1 082510 22  
Sample ID 259899022  
Matrix Solid  
Collect Date 25 AUC-10 13 13  
Receive Date 01-SEP 10  
Collector Client  
Project CARE EUI-12  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV1	09/16/10	1530	1025162	1
Metals Analysis-ICP											
SW846 3050B/6010C Solid As Received											
Lead		6260	248	992	ug/kg	1	JWJ	09/10/10	0833	1021246	2
Semi Volatiles-PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3 29	9 87	ug/kg	1	JAOC	09/13/10	1135	1023330	3
Aroclor 1221	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1232	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1242	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1248	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1254	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1260	U	ND	3 29	9 87	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	15 2 ug/kg	19 7	76 9	(16%-126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	13 7 ug/kg	19 7	69 5	(23%-103%)

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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
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Contact Mr. Allan Enchsen  
Project EUJ 12 Environmental Monitoring PCB

Report Date September 16 2010

Chent Sample ID SS10WD 23 154 0 082510 23  
Sample ID 259899023  
Matrix Solid  
Collect Date 25 AUC 10 13 18  
Receive Date 01 SEP 10  
Collector Chent

Project CARE EUJ 12  
Chent ID CARE004

Parameter	Quahfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract Halogen) "As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1540	1025162	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid As Received</i>											
Lead		6540	248	992	ug/kg	1	JWJ	09/10/10	0835	1021246	2
<b>Semi Volatiles-PCB</b>											
<i>SW846 3550C/8082A PCB Solid As Received</i>											
Aroclor 1016	U	ND	3 29	9 87	ug/kg	1	JAOC	09/13/10	1146	1023330	3
Aroclor 1221	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1232	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1242	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1248	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1254	U	ND	3 29	9 87	ug/kg	1					
Aroclor 1260	U	ND	3 29	9 87	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	16 2 ug/kg	19 7	82 2	(16% 126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	14 0 ug/kg	19 7	70 9	(23% 103%)

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## Certificate of Analysis

Company EnergySolutions,LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUJ 12 Environmental Monitoring PCB

Report Date September 16 2010

Client Sample ID SSI0WD 24 148 3 082510-24  
Sample ID 259899024  
Matrix Solid  
Collect Date 25 AUC 10 13 25  
Receive Date 01 SEP-10  
Collector Chent

Project CARE EUJ 12  
Chent ID CARE004

Parameter	Quabfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) "As Received"											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1550	1025162	I
Metals Analysis-ICP											
SW846 3050B/6010C Solid "As Received"											
Lead		6610	231	923	ug/kg	1	JWJ	09/10/10	0838	1021246	2
Semi-Volatiles-PCB											
SW846 3550C/8082A PCB Solid "As Received"											
Aroclor 1016	U	ND	3 30	9 90	ug/kg	1	JAOC	09/13/10	1157	1023330	3
Aroclor 1221	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1232	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1242	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1248	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1254	U	ND	3 30	9 90	ug/kg	1					
Aroclor 1260	U	ND	3 30	9 90	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYHI	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen Extractable(TOX) Prep	BYVI	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	15 5 ug/kg	19 8	78 3	(16% 126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	13 9 ug/kg	19 8	69 9	(23%-103%)

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Erichsen  
Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Ghent Sample ID SSI0WD BKG East 141 5 083010 03  
Sample ID 259899025  
Matrix Solid  
Collect Date 25 AUG 10 10 35  
Receive Date 01-SEP-10  
Collector Chent  
Project Ghent ID CARE EUI 12  
CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Halogen Analysis											
SW9023 TOX (Extract Halogen) As Received											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYV	09/16/10	1600	1025162	1
Metals Analysis ICP											
SW846 3050B/6010C Solid As Received											
Lead		11700	248	990	ug/kg	1	JWJ	09/10/10	0841	1021246	2
Semi-Volatiles PCB											
SW846 3550C/8082A PCB Solid As Received											
Aroclor 1016	U	ND	3 29	9 89	ug/kg	1	JAOC	09/13/10	1209	1023330	3
Aroclor 1221	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1232	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1242	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1248	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1254	U	ND	3 29	9 89	ug/kg	1					
Aroclor 1260	U	ND	3 29	9 89	ug/kg	1					

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen, Extractable(TOX) Prep	BYV1	09/16/10	1200	1025092

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13 5 ug/kg	19 8	68 4	(16%-126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	12 5 ug/kg	19 8	63 1	(23%-103%)

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Company EnergySolutions,LLC  
 Address 423 West 300 South  
 Suite 200  
 Salt Lake City, Utah 84101  
 Contact Mr Allan Erichsen  
 Project EUI 12 Environmental Monitoring - PCB

Report Date September 16 2010

Ghent Sample ID SSI0WD BKG South147 9 083010-04 Project CARE EUI 12  
 Sample ID 259899026 Ghent ID CARE004  
 Matrix Solid  
 Collect Date 25 AUG 10 11 57  
 Receive Date 01 SEP 10  
 Collector Chent

Parameter	Quahfier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Halogen Analysis</b>											
<i>SW9023 TOX (Extract. Halogen) "As Received"</i>											
Extractable Organic Halogens	U	ND	25 0	75 0	mg/kg	1	BYVI	09/16/10	1610	1025162	1
<b>Metals Analysis-ICP</b>											
<i>SW846 3050B/6010C Solid "As Received"</i>											
Lead		9790	246	982	ug/kg	1	JWJ	09/10/10	0844	1021246	2
<b>Semi-Volatiles-PCB</b>											
<i>SW846 3550C/8082A PCB Solid "As Received"</i>											
Aroclor 1016	U	ND	3 27	9 83	ug/kg	1	JAOC	09/13/10	1220	1023330	3
Aroclor 1221	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1232	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1242	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1248	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1254	U	ND	3 27	9 83	ug/kg	1					
Aroclor 1260	U	ND	3 27	9 83	ug/kg	1					

**The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	SW846 3050B Prep for 6010C	LYH1	09/07/10	0950	1021245
SW846 3550C	3550C PCB Prep Soil	MXS4	09/10/10	1900	1023329
SW846 9023 Prep	SW 9023 Halogen Exnactable(TOX) Prep	BYVI	09/16/10	1200	1025092

**The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9023	
2	SW846 3050B/6010C	
3	SW846 3550C/8082A	
4	SW846 3550C/8082A	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	SW846 3550C/8082A PCB Solid As Received	13 3 ug/kg	19 7	67 6	(16% 126%)
4cmx	SW846 3550C/8082A PCB Solid As Received	12 5 ug/kg	19 7	63 5	(23%-103%)



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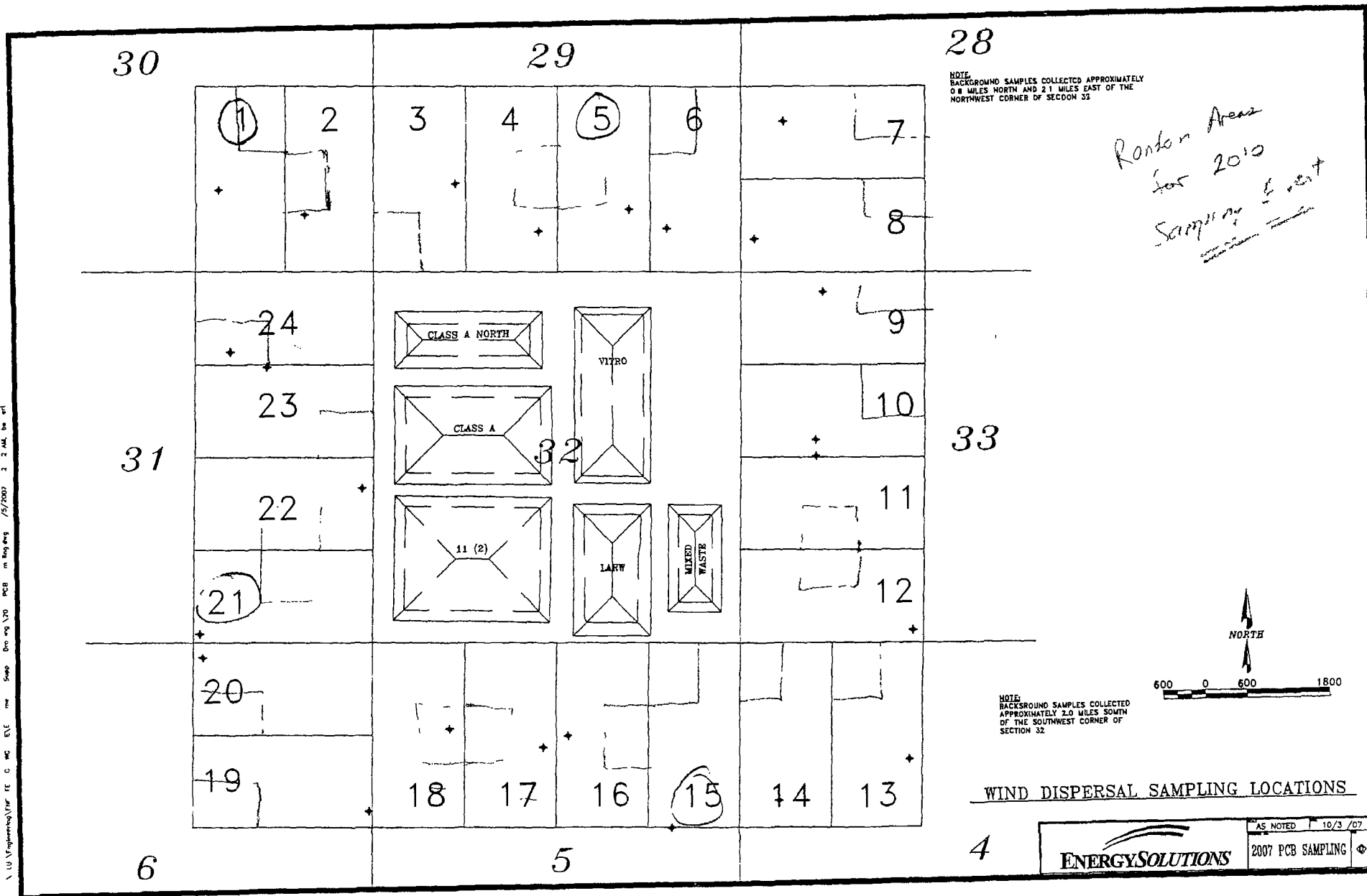
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# EnergySolutions

Company Address  
City State ZIP Code  
Phone Number / Fax Number

Client Environmental Trl Annual

Work Order Name

ENVIRO PCBS 8-25-10

First Access 8/25/10 9:22 AM  
Latitude 8/25/10 9:22 AM

Operator Name J my H  
Site Name EnergySolution Ctr St (10-21 08)  
Design

Units (US Survey Feet)  
Total Number of Points 26  
Total Time 002:05  
Points per Minute 12.48

Sub-Type	Point Name	Line Name	Point Code	Measured N	Measured E	Measured Elev	Precision H	Precision V	Precision Type	Measured Station	Measured Offset	Antenna Ht	Observed Local Time	Observed Date
P int	103		3	15690 847	10897 991	4271 874	0 056	0 079	RTK			6 562	9 36 04 AM	8/25/2010
P (	102		2	16843 547	9489 599	4270 764	0 033	0 043	RTK			6 562	9 43 58 AM	8/25/2010
P 1	101		1	17908 014	8328 444	4271 868	0 039	0 044	RTK			6 562	9 53 03 AM	8/25/2010
P int	104		4	16660 008	11956 172	4274 739	0 028	0 031	RTK			6 562	10 02 51 AM	8/25/2010
Point	105		5	16697 851	13041 733	4278 190	0 040	0 043	RTK			6 562	10 11 24 AM	8/25/2010
P fht	106		6	18391 345	14465 586	4279 775	0 031	0 033	RTK			6 562	10 21 13 AM	8/25/2010
P int	107	EASTBKG		17992 815	25896 100	4361 839	0 061	0 082	RTK			6 562	10 36 39 AM	8/25/2010
Po t	108		7	17724 921	17174 734	4281 865	0 033	0 052	RTK			6 562	10 52 58 AM	8/25/2010
P int	109		8	16447 256	16816 332	4280 519	0 031	0 049	RTK			6 562	10 59 41 AM	8/25/2010
Po t	110		9	15117 548	16583 407	4278 790	0 041	0 067	RTK			6 562	11 07 10 AM	8/25/2010
P m	111		10	13617 208	16328 054	4278 049	0 031	0 058	RTK			6 562	11 14 30 AM	8/25/2010
Point	112		11	11656 627	16046 393	4276 663	0 048	0 085	RTK			6 562	11 23 16 AM	8/25/2010
P int	113		12	10773 927	16020 644	4275 920	0 046	0 073	RTK			6 562	11 29 25 AM	8/25/2010
P int	114		13	9247 803	16517 813	4277 780	0 019	0 037	RTK			6 562	11 35 55 AM	8/25/2010
Point	115		14	9449 494	15465 740	4274 899	0 021	0 038	RTK			6 562	11 42 01 AM	8/25/2010
P int	116	SOUTHBKG		1050 024	10145 234	4269 424	0 029	0 060	RTK			6 562	11 57 57 AM	8/25/2010
P int	119		19	7687 186	7907 973	4266 866	0 036	0 058	RTK			6 562	12 11 00 PM	8/25/2010
P t	120		20	9243 932	8006 125	4266 225	0 021	0 039	RTK			6 562	12 15 58 PM	8/25/2010
P t	121		15	9752 235	14358 959	4274 399	0 046	0 074	RTK			6 562	12 26 15 PM	8/25/2010
P t	122		16	9229 301	13493 741	4272 573	0 022	0 036	RTK			6 562	12 31 34 PM	8/25/2010
Point	123		17	8978 617	12126 737	4269 478	0 024	0 036	RTK			6 562	12 37 25 PM	8/25/2010
P 1	124		18	9118 082	11198 422	4268 536	0 018	0 029	RTK			6 562	12 42 00 PM	8/25/2010
P int	125		21	10886 000	8532 127	4264 720	0 016	0 027	RTK			6 562	1 00 47 PM	8/25/2010
P 1	126		22	11833 411	8614 487	4264 543	0 029	0 044	RTK			6 562	1 14 49 PM	8/25/2010
P 1	127		23	12710 991	9568 580	4266 616	0 034	0 050	RTK			6 562	1 19 40 PM	8/25/2010
P int	128		24	14223 759	7380 291	4265 138	0 017	0 026	RTK			6 562	1 25 04 PM	8/25/2010

Lab # 201004680

Utah Division of Laboratory Services  
46 North Medical Drive  
Salt Lake City, UT 84113

Date/Time Collected 08/25/201009 50 Sample Matrix Soil/Solid  
Collected By OHW Sampling Site  
Description of Sampling Point SAMPLE 1

Analyst DP Date Received 08/25/2010 Date Analyzed 9/1/10  
 Aliquot Sample Extracted 30g Final Volume Extract 10ml  
 (MDL based on 1 L extraction and 10 ml final volume)

<u>Compound</u>	<u>MRL/Results ug/kg</u>
-----------------	--------------------------

Aldrin	8 3	U
alpha-BHC	8 3	U
beta-BHC	8 3	U
delta-BHC	8 3	U
gamma-BHC (Lindane)	8 3	U
Chlordane	166 0	U
4,4'-DDD	8 3	U
4,4'-DDE	8 3	U
4,4'-DDT	8 3	U
Dieldrin	8 3	U
Endosulfan I	8 3	U
Endosulfan II	8 3	U
Endosulfan sulfate	8 3	U
Endrin	8 3	U
Endrin aldehyde	8 3	U
Heptachlor	8 3	U
Heptachlor epoxide	8 3	U
Toxaphene	332 0	U
Methoxychlor	8 3	U

PCB-1016	83	0	U
PCB-1221	166	0	U
PCB-1232	166	0	U
PCB-1242	166	0	U
PCB-1248	166	0	U
PCB-1254	166	0	U
PCB-1260	83	0	U

U - Analyzed for but not detected  
J - A value less than the detection limit  
but greater than zero  
B - Found in the blank

Date

Cost Code 365EPA METHOD ~~408~~ 8082Lab # 201004681

## PCB's and Organochlorine Pesticides

Send Report To

UDEQ - DSHW

ATTN

PO BOX 144880

SALT LAKE CITY UT 84114-4880

Utah Division of Laboratory Services

46 North Medical Drive

Salt Lake City, UT 84113

Date/Time Collected 08/25/201009.30Sample Matrix Soil/SolidCollected By OHW

Sampling Site

Description of Sampling Point SAMPLE 3Analyst DFDate Received 08/25/2010Date Analyzed 9/1/10Aliquot Sample Extracted 30gFinal Volume Extract 10ml

(MDL based on 1 L extraction and 10 ml final volume)

Compound	MRL/Results ug/kg	
Aldrin	8 3	U
alpha-BHC	8 3	U
beta-BHC	8 3	U
delta-BHC	8 3	U
gamma-BHC (Lindane)	8 3	U
Chlordane	166 0	U
4,4'-DDD	8 3	U
4,4'-DDE	8 3	U
4,4'-DDT	8 3	U
Dieldrin	8 3	U
Endosulfan I	8 3	U
Endosulfan II	8 3	U
Endosulfan sulfate	8 3	U
Endrin	8 3	U
Endrin aldehyde	8 3	U
Heptachlor	8 3	U
Heptachlor epoxide	8 3	U
Toxaphene	332 0	U
Methoxychlor	8 3	U
PCB-1016	83 0	U
PCB-1221	166 0	U
PCB-1232	166 0	U
PCB-1242	166 0	U
PCB-1248	166 0	U
PCB-1254	166 0	U
PCB-1260	83 0	U

U - Analyzed for but not detected

J - A value less than the detection limit  
but greater than zero

B - Found in the blank

Analysis Certified By

J Oman

Date

7 Sept 10

Cost Code 365EPA METHOD ~~600/8082~~Lab # 201004682

PCB's and Organochlorine Pesticides

Send Report To

UDEQ - DSHW

ATTN

PO BOX 144880

SALT LAKE CITY UT 84114-4880

Utah Division of Laboratory Services

46 North Medical Drive

Salt Lake City, UT 84113

Date/Time Collected 08/25/2010 08Sample Matrix Soil/SolidCollected By OHW

Sampling Site

Description of Sampling Point SAMPLE 5Analyst DFDate Received 08/25/2010Date Analyzed 9/1/10Aliquot Sample Extracted 30gFinal Volume Extract 10 ml

(MDL based on 1 L extraction and 10 ml final volume)

Compound	MRL/Results ug/kg	
Aldrin	8 3	U
alpha-BHC	8 3	U
beta-BHC	8 3	U
delta-BHC	8 3	U
gamma-BHC (Lindane)	8 3	U
Chlordane	166 0	U
4,4'-DDD	8 3	U
4,4'-DDE	8 3	U
4,4'-DDT	8 3	U
Dieldrin	8 3	U
Endosulfan I	8 3	U
Endosulfan II	8 3	U
Endosulfan sulfate	8 3	U
Endrin	8 3	U
Endrin aldehyde	8 3	U
Heptachlor	8 3	U
Heptachlor epoxide	8 3	U
Toxaphene	332 0	U
Methoxychlor	8 3	U
PCB-1016	83 0	U
PCB-1221	166 0	U
PCB-1232	166 0	U
PCB-1242	166 0	U
PCB-1248	166 0	U
PCB-1254	166 0	U
PCB-1260	83 0	U

U - Analyzed for but not detected

J - A value less than the detection limit  
but greater than zero

B - Found in the blank

Analysis Certified By

J Oman

Date

7 Sept 10

Cost Code 365EPA METHOD ~~600/882~~Lab # 201004683

## PCB's and Organochlorine Pesticides

Send Report To

UDEQ - DSHW

ATTN

PO BOX 144880

SALT LAKE CITY UT 84114-4880

Utah Division of Laboratory Services

46 North Medical Drive

Salt Lake City, UT 84113

Date/Time Collected 08/25/2010 10.17Sample Matrix Soil/SolidCollected By OHW

Sampling Site

Description of Sampling Point SAMPLE 6Analyst DADate Received 08/25/2010Date Analyzed 9/1/10Aliquot Sample Extracted 30gFinal Volume Extract 10ml

(MDL based on 1 L extraction and 10 ml final volume)

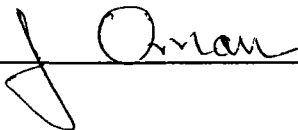
Compound	MRL/Results ug/kg	
Aldrin	8 3	U
alpha-BHC	8 3	U
beta-BHC	8 3	U
delta-BHC	8 3	U
gamma-BHC (Lindane)	8 3	U
Chlordane	166 0	U
4,4'-DDD	8 3	U
4,4'-DDE	8 3	U
4,4'-DDT	8 3	U
Dieldrin	8 3	U
Endosulfan I	8 3	U
Endosulfan II	8 3	U
Endosulfan sulfate	8 3	U
Endrin	8 3	U
Endrin aldehyde	8 3	U
Heptachlor	8 3	U
Heptachlor epoxide	8 3	U
Toxaphene	332 0	U
Methoxychlor	8 3	U
PCB-1016	83 0	U
PCB-1221	166 0	U
PCB-1232	166 0	U
PCB-1242	166 0	U
PCB-1248	166 0	U
PCB-1254	166 0	U
PCB-1260	83 0	U

U - Analyzed for but not detected

J - A value less than the detection limit  
but greater than zero

B - Found in the blank

Analysis Certified By



Date

7 Sept 10

Attachment 10



May 17, 2010

Mr Scott T Anderson  
Acting Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
P O Box 144880  
Salt Lake City, UT 84114-4880

UTD 982598898  
HAND DELIVERED<sup>CD10-0149</sup>

MAY 17 2010  
UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE  
2010 01696

Subject Self-identified Noncompliance – Treatment Outside Formula Parameters

Dear Mr Anderson

EnergySolutions LLC hereby self-identifies an incident of noncompliance with Attachment II-1-3, *Waste Stabilization Plan*, of the State-issued Part B Permit Condition V 5 of Attachment II-1-3 states that “the Permittee shall operate within an error range of 10% of the direct-proportion treatment process ingredients for stabilization” Contrary to this requirement, a reagent was added at only 57% of the prescribed amount during treatment of Waste Stream 9080-01 on March 16, 2010 (Treatment Run 100316)

Ten pounds of waste was treated in Treatment Run 100316 The reagent in question should have been added to 35% of the waste weight, but instead was only added to 20% (2 lbs of reagent was added instead of the prescribed 3.5 lbs) A post-treatment sample was collected from the waste and analyzed for TCLP metals by GEL Laboratories LLC with results demonstrating that all treatment standards had been met and the waste was Land Disposal Restriction (LDR) compliant The treatment residue was approved for disposal on April 7, 2010 and is currently in storage at the Mixed Waste Facility

This issue was discovered during an internal quality assurance surveillance of the treatment process that was conducted May 13-14, 2010 The cause and corrective actions for this incident are currently under investigation, Condition Report CR10-052 has been written

Should there be any questions on this notification, please contact me at 649-2144

Sincerely,

Timothy L. Orton, P E  
Environmental Engineer

cc Otis Willoughby, DSHW

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is to the best of my knowledge and belief true accurate and complete I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations

**COPY**  
**ENERGYSOLUTIONS**

**HAND DELIVERED**

**AUG 31 2010**

**UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE**

**CD10-0245**

August 23, 2010

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
P O Box 144880  
Salt Lake City, UT 84114-4880

**RECEIVED**

**AUG 31 2010**

DEPARTMENT OF  
ENVIRONMENTAL QUALITY

Subject Follow-Up of Self-Identified Non-Compliance  
Treatment Outside Formula Parameters

Dear Mr Anderson


In a letter dated May 17, 2010, EnergySolutions notified the Executive Secretary of an incident in which the stabilization treatment formula was not followed within the error range of 10%. Condition Report CR10-052 was written for this incident. Corrective actions to minimize the chance of this issue being repeated have been completed and the Condition Report has been closed. These corrective actions are detailed below.

Training was conducted on May 25, 2010 for all treatment personnel. This training included information on where to find the approved treatment formula and how the formula described on the run sheet should match that approved formula. This training was conducted by the treatment manager. Additionally, the overlying treatment procedure (CL-MT-PR-002) was revised, adding a verification of the proper treatment formula used to the treatment manager's review of the treatment run paperwork. As this additional review is performed prior to disposal of the treatment residue, this corrective action ensures that the treated waste will not be disposed without proper treatment verification conducted.

The procedure was revised and signed on August 18, 2010. Condition Report CR10-052 was also closed on August 18, 2010.

Should there be any questions on this information, please contact me at 649-2144.

Sincerely,

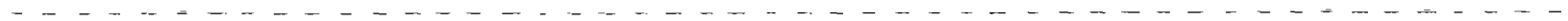


Timothy L. Orton, P.E.  
Environmental Engineer

cc Otis Willoughby, DSHW

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.





June 15, 2010

**HAND DELIVERED** CD10-0178

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
195 N 1950 W  
P O Box 144880  
Salt Lake City, UT 84114-4880

**JUN 15 2010**  
**UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE**  
*2010.02057*

Re EPA ID # UTD 982598898 – Self-Identified Noncompliance with Condition V E 5

Dear Mr Anderson

EnergySolutions has identified an instance of noncompliance with Condition V E 5 of the State-issued Part B Permit Condition V E 5 requires that waste meet the Land Disposal Restrictions, or be subject to an approved variance, prior to placement in the Mixed Waste Landfill Cell. Contrary to this, EnergySolutions has determined that one partially full drum from shipment 9016 28-M11201, which contained waste requiring VTD treatment, has been placed into macro vault #MW9A100603MV. Verbal notification was provided to DSHW on June 7, 2010.

On June 8 2010, EnergySolutions provided a retrieval and repair plan to remove this material from the macro vault. Please find a copy of this plan attached. Verbal approval to implement this plan was provided at approximately 1:30 PM on June 8, 2010 and field activities began that afternoon. The drum was retrieved on the morning of June 9, 2010 and repairs were completed in accordance with the plan.

Condition Report CR10-064 was written to track immediate corrective actions of drum retrieval and vault repair. Corrective actions to prevent recurrence will also be identified and reported to DSHW under separate cover.

If you have any questions regarding this matter, please contact me at (801) 649-2096.

Sincerely,



Sean McCandless  
Director of Compliance and Permitting

Cc: ~~Chris Willoughby~~, DSHW  
File CR10-064

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

## Sean McCandless

---

**From** Sean McCandless  
**Sent** Tuesday, June 08, 2010 11:59 AM  
**To** Otis Willoughby III  
**Co** Jesse Garcia, Richard A. Chalk  
**Subject** Condition Reports  
FW: macro vault retrieval and repair plan

Otis

As we discussed yesterday afternoon and again this morning, EnergySolutions has determined that one partially full drum from shipment 9016-28-M11201, which contained waste requiring VTD treatment, has been placed into macro vault #MW9A100503MV. Please consider this email as our request for DSHW approval of the below plan for excavation and recovery of this material.

A condition report will be generated to document the situation and corrective actions, and a followup letter will be provided to DSHW no later than June 15, 2010.

Thank you,  
Sean McCandless

---

**From** Sean McCandless  
**Sent** Tuesday, June 08, 2010 11:17 AM  
**To** Jesse Garcia, Richard A. Chalk, Craig Erickson, Charles Moylan, Kelly Lewis, Mike Turley, Terry G. Davis  
**Subject** macro vault retrieval and repair plan

Revised plan from our discussion this morning for review and comment. Please edit, add, or delete as needed.

### Precautions

1. Evaluate radiation safety and personnel safety risks associated with excavating waste to determine appropriate controls. Pay particular attention to other waste streams co-treated in this vault which may be exposed. These evaluations have been completed and appropriate radiation safety and personnel safety monitoring will be implemented.
2. The target drum is an 85-gallon drum of solidified material intended for VTD. The drum has most likely been compacted as part of placing it into the macro vault. The target drum is less than half full of solidified material.
3. Do not break open or excavate any more waste than needed to locate the target drum. This specifically includes waste stream 9048-03 boxes and 9011-04 large pieces, which are located below and adjacent to the drums and shall not be disturbed.
4. When removing containers that are not the target container, handle them so as to minimize exposing waste material.
5. If excavation and re-pouring cannot be completed in one calendar day, all exposed waste in both the excavated and re-placement vault shall be covered with tarps to protect against precipitation contacting the waste.

### Excavation and repair plan

1. Notify DSHW and obtain their approval prior to beginning work, in accordance with Attachment II 1.5 condition 5 b iv M(5) III (page 15).
2. Perform and document a pre-job briefing on this plan and any conditions of DSHW approval.
3. Locate where in the vault the target drum was most likely placed.
4. Set up an empty macro vault area to be used for re-placement of excavated waste containers, concrete chunks, etc.

- 5 Place a tarp on the cell surface between the vault to be excavated and the empty vault for re placement of excavated material
- 6 Break into vault using trackhoe bucket and/or stinger, as needed Operate to minimize potential damage to adjacent vaults, and to other areas of the target vault
- 7 As 85-gallon drums are exposed, inspect to determine if the target drum has been located
- 8 Move any materials other than the target drum to the empty macro vault area as they are excavated This includes all excavated chunks of cured macro mix If pieces need to be set down before placing into the empty vault, place them on the tarp and not on the cell surface
- 9 Continue breaking and moving until the target drum is located
- 10 Repackage the target drum, if needed, into a container suitable for placement on the storage pad
- 11 Include any material that may have spilled from the target drum in the repackaged container
- 12 Close and label the repackaged container
- 13 Move the repackaged container to decon, if needed, then to permitted storage
- 14 Clean up the excavated macro vault so that minimum 4" cover on top can be re-established
- 15 Inspect the excavated macro vault and adjacent vaults to define the area that needs to be re-poured Structural cracks or other surface damage which potentially indicates less than 4" of cover will require re-pouring Document inspection results
- 16 Form minimum 4" high around the area to be re-poured Overlap at least one foot in all directions onto the original vault surface
- 17 Apply bonding agent to the entire top surface of the area to be re poured
- 18 Pour macro vault cap using approved Macro Mix formula, following standard Permit requirements for testing and post-pour inspections
- 19 Document results in CR file and followup letter to DSHW

October 4, 2010

CD10-0274

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
P O Box 144880  
Salt Lake City, UT 84114-4880

**RECEIVED****OCT 04 2010**DEPARTMENT OF  
ENVIRONMENTAL QUALITY

Re Follow-up to Self-identified Noncompliance dated June 15, 2010 –  
Waste Requiring VTD placed in Macro Vault

**HAND DELIVERED**

2010.03252

**OCT 04 2010**

Dear Mr Anderson

UTAH DIVISION OF

In a letter dated June 15, 2010, EnergySolutions notified the Executive Secretary of SOLID & HAZARDOUS WASTE noncompliance regarding the improper management of waste at the Chve Facility. A container that required vacuum thermal desorption (VTD) treatment was placed in a macro vault. This letter provides subsequent corrective actions implemented to avoid recurrence of this event.

The container was retrieved from the macro vault on June 9, 2010 and was treated through VTD on July 11, 2010. Treatment verification results were received on July 29, 2010 (GEL WO# 256643) demonstrating that all organic compounds were treated below Universal Treatment Standards (UTS). The sample detected lead above treatment standards which required stabilization treatment prior to disposal. Stabilization was performed on September 29, 2010 and the waste was disposed in the Mixed Waste Landfill Cell on September 30, 2010.

Condition Report CR10-064 was created to track corrective actions associated with this incident. In addition, an Apparent Cause Analysis (ACA) meeting convened on June 22, 2010. Corrective actions included more specific site destination labeling of containers as well as training for mixed waste personnel. Operating Procedure CL-MT-PR-101, *Pre-Processing Waste*, was revised to add the application of a waste destination label on the containers, near the tracking label. Operating Procedure CL-MD-PR-003, *Container Movement*, was also revised with instructions for the operator to check all labels prior to movement and to set the waste aside and contact management if the label does not match the designated waste management. These corrective actions were completed and the Condition Report was closed on September 28, 2010.

Should there be any questions, please contact Tim Orton or myself at 801-649-2000.

Sincerely,



Sean McCandless

Director of Compliance and Permitting

cc Otis Willoughby

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SOLUTIONS

Thermal Desorption Treatment Record (EC 98300)

Form CL MT-PR-501 F1

Rev 0

## Thermal Desorption Treatment Record

Recipe ID A

9016 28 100711

Page 1 of 1

Gen WS Run Number

Process Cycle (batch) ID A Start Date/Time 07 11 10 21:55 End Date/Time 07 12 10 / 0110

Containers In / Feed Material					
Bates/Run #	Container Type	Container Number	Bates/Run #	Container Type	Container Number
1 M11201S	85Gal	R-1	9		
2 M11247R	85Gal	R 1	10		
3 M11203S	85Gal	R 1	11		
4 M11173R	85Gal	R 1	12		
5 M11192R	85Gal	R 1	13		
6			14		
7			15		
8			16		

Containers Out / Process Material			Notes <u>Placed into unique product box</u>
Net Weight (lbs)	Final Temp Hold Time	Cycle Time (min)	
706	1000/10	215	

Process Cycle (batch) ID

Start Date/Time

End Date/Time

Containers In / Feed Material					
Bates/Run #	Container Type	Container Number	Bates/Run #	Container Type	Container Number
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

Containers Out / Process Material			Notes
Net Weight (lbs)	Final Temp Hold Time	Cycle Time (min)	

Lucas Burnell Lucas Burnell 1.13.10  
 Lead ID Operator Print / Sign / Date

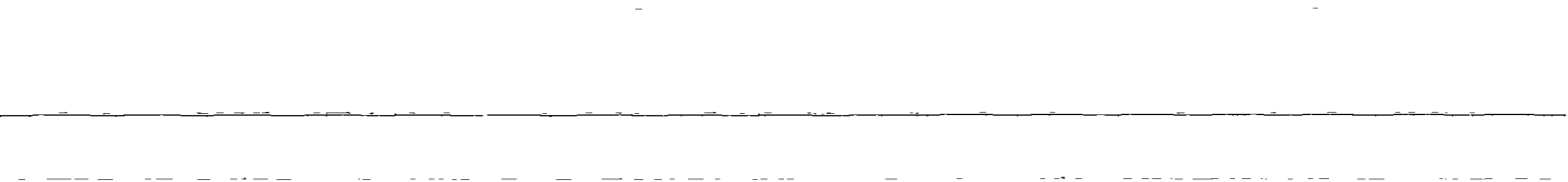
Lucas Burnell For G Majors 1.13.10  
 ID Manager Print / Sign / Date

7-13-10  
 Energy Solutions Review Initial / Date

## Macro Corrective Action Log

GEN / WS / RUN	FORM #	DATE REMOVED FROM CELL	CORRECTIVE ACTION TAKEN	FINAL INSPECTION DATE / TIME	PASS/ FAIL	INSPECTORS SIGNATURE	Comments
9016-28 / M11201S / MW9A100603MV	N/A	6/9/2010	Dug out drum with track hoe pour 18 yards of macro mix on dug out portion of vault	6/11/2010	pass	<i>[Signature]</i>	Dug out portion of this vault was placed in a new vault (MW9A100610MV)
N/A 6-11-10 /MD							

**COPY**







UTD982598898  
HAND DELIVERED

SEP 13 2010

UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE  
2010.03098

CD10-0254

September 9, 2010

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
195 North 1950 West  
P O Box 144880  
Salt Lake City, UT 84114-4880

RECEIVED

SEP 13 2010

DEPARTMENT OF  
ENVIRONMENTAL QUALITY

Re EPA ID # UTD 982598898 – Condition V F 4, Leachate Remediation Plan

Dear Mr Anderson

In accordance with Condition V F 4 of the State-issued Part B Permit, EnergySolutions hereby provides an initial remediation plan for leachate discovered in the middle and lower pipes (primary and secondary leak detection systems) of sump 3A of the Mixed Waste Landfill Cell. Initial notification of liquids present in excess of the action levels of 15 gallons/acre/day for the middle pipe and 10 gallons/acre/day for the bottom pipe was provided via email on September 2, 2010.

During the weekly inspection on August 31, 2010, approximately 2,000 gallons of liquid was removed from the middle pipe and approximately 850 gallons from the bottom pipe. This equates to approximately 286 gallons/acre/day for the middle pipe and 121 gallons/acre/day from the bottom pipe. Both of these exceed the action levels as described in Condition V F 3. No leachate was detected in these pipes during the previous inspection (August 23, 2010), however, 1,000 gallons was pumped from the upper pipe on three separate days between these inspection events.

As an immediate corrective action, a daily inspection for leachate in the middle and lower pipes (at sump 3A only) has been implemented. This may provide additional data as to the timing of infiltration events to the middle and lower pipes. In addition, liquid collected from the middle and lower pipes has been sampled and submitted for chemical and radiological analysis to evaluate if they are from the same or different sources. Analytical data is scheduled to report on September 17, 2010. In accordance with EnergySolutions' quality assurance program a Condition Report has been generated to track corrective actions associated with this issue.

Attached, please find a summary of leachate inspections for sump 3A from August 23, 2010 through September 9, 2010. This summary includes daily data for all three sumps.



Mr Scott T Anderson  
September 9 2010  
CD10-0254  
Page 2 of 2

as well as precipitation data as measured by the Chve weather station This data indicates a decline m the daily rate of water accumulation, however, the action levels are still being exceeded

An inspection of and aroimd sump 3A has been conducted No abnormalities were found within the cell construction or the leachate monitoring equipment

At this point, EnergySolutions' remediation plan is to continue generating data on the leakage rate and to evaluate the analytical data once available EnergySolutions will also perform additional physical investigations of sump 3A

EnergySolutions will provide a follow-up report no later than September 30, 2010 with analytical data, daily leachate detection data for sump 3A, and additional observations

If you have any questions regarding this matter, please contact me at (801) 649-2151

Sincerely,

A handwritten signature in black ink, appearing to read "Sean McCandless". The signature is fluid and cursive.

for Sean McCandless  
Director of Compliance and Permitting

Cc Otis Willoughby, DSHW  
Francis Tran, EPA Region VIII

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information the information submitted is to the best of my knowledge and belief true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations

### 3A Water Collection Totals

	Checked once a Week		Pumped to <1ft	3A Cell	Precipitation
	3A Lower	3A Middle	3A Upper	Ponding	(mm)
8/23/2010			0	0	0
8/24/2010	0	0	1 000	0	0
8/25/2010			0	0	0
8/26/2010			0	0	0
8/27/2010			1 000	0	0
8/28/2010				Weekend	0
8/29/2010				Weekend	0
8/30/2010			1 000	0	0 22
8/31/2010	850	2 000	0	0	0
9/1/2010	444	587	1 000	0	0
9/2/2010	186	272	1 000	0	0
9/3/2010	43	244	500	0	0
9/4/2010				Weekend	
9/5/2010				Weekend	
9/6/2010				Holiday	
9/7/2010	14	258	200	0	0 04
9/8/2010	4	157	100	0	0 01
9/9/2010	11	157	258	0	0 08
9/10/2010					
9/11/2010				Weekend	
9/12/2010				Weekend	



UTD982598898  
HAND DELIVERED

OCT 04 2010

UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE  
2010 03255

CD10-0268

September 30, 2010

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
195 North 1950 West  
P O Box 144880  
Salt Lake City, UT 84114-4880

RECEIVED

OCT 04 2010

DEPARTMENT OF  
ENVIRONMENTAL QUALITY

Re EPA ID # UTD 982598898 – Condition V F 4, Leachate Remediation Plan,  
Additional Information

Dear Mr Anderson

In a letter dated September 9, 2010, EnergySolutions provided information regarding the remediation plan for leachate discovered in the middle and lower detection systems of sump 3A of the Mixed Waste Landfill Cell. At the time of that letter, EnergySolutions was in the initial investigation stages of the event and awaiting analytical results for samples collected from each of the detection systems.

The investigation is still ongoing with causes of occurrence not yet found and final corrective actions not yet determined. An apparent cause analysis (ACA) meeting was conducted on Tuesday, September 21, 2010 and several potential causes were discussed. The potential causes discussed are briefly summarized as follows:

- Precipitation events were ruled out as causing the event since very little precipitation has occurred recently.
- It was determined improbable that a 'lag-time' from large spring storms could have caused the event as this would have manifested itself in a slow build-up of liquid in the sumps.
- Water ponding around the pipe stands was not an issue and did not cause this event.
- A tear in the membranes is unlikely as the probability is low that both the upper and middle HDPE liners would have been torn at the same time, furthermore, membrane tears would have needed to be in the primary flow path and most likely would have manifested liquids prior to this event.

- The April, 2010 addition of waste to the area above Sump 3A was also ruled out as this would only manifest itself in the upper sump which is pumped regularly
- Waste placement activities may potentially have damaged the liner, however, this path is unlikely as this type of damage would have manifested itself years ago

Daily leachate observations and collections demonstrate that all three of the leak detection systems continue to recharge with liquids. Beginning on September 3, 2010, a decision was made to remove all of the liquid from the upper leak detection system instead of keeping one-foot in-place as allowed by the State-issued Part B Permit. During this time, it appeared that recharge of the lower leak detection system had ceased and the middle leak detection system was recharging only a small amount of liquid. During the ACA meeting on this issue, the effects of head on the liners were discussed. Based on this meeting, it was decided to allow liquids to accumulate to the one-foot mark in the upper leak detection system and then to monitor the other systems. Since this action was initiated, recharge of the middle leak detection system has been consistently over 20 gallons/acre/day and the lower leak detection has also been recharging with a small amount of liquid each day.

A review of the analytical data (attached) shows good correlation between the liquid in the middle and lower leak detection systems, but less correlation with the liquid in the upper leak detection system, however, the sample from the upper leak detection system was taken nine days later than the samples collected from the other two leak detection systems. Additional samples from all three leak detection systems were collected on Monday, September 27, 2010. These have been sent to an off-site laboratory for volatile organic, semi-volatile organic, and metals analyses. In addition, cations and anions within the samples are being analyzed so that Piper Diagrams may be constructed to better clarify the similarity of the liquids. These analytical data are scheduled to report on October 13, 2010.

EnergySolutions has scheduled a contractor to come out on the week of October 4, 2010 to run a horoscope down the leachate pipes to see if any observable physical damage is present. In addition, EnergySolutions is examining waste disposal techniques in this and adjacent sumps of the Mixed Waste Landfill Cell as well as spring storm events and associated water management.

EnergySolutions will provide an additional follow-up report to this event on or before November 4, 2010. This follow-up report will include an analysis of the additional information being collected as described in this report.



Mr. Scott T. Anderson  
September 30, 2010  
CD10-0268  
Page 3 of 3

Attached, please find a summary of leachate inspections for sump 3A from August 23, 2010 through September 30, 2010. This summary includes daily collection data for all three sumps as well as precipitation data as measured by the Clive weather station. Also attached is the actual data from the initial sample collection events for all three of the leak detection systems in sump 3A.

If you have any questions regarding this matter, please contact me at (801) 649-2151.

Sincerely,

A handwritten signature in black ink, appearing to read "Sean McCandless".

Sean McCandless  
Director of Compliance and Permitting

Cc: Otis Willoughby, DSHW  
Francis Tran, EPA Region VIII

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Leachate Inspections**

### 3A Water Collection Totals

	3A Lower	3A Middle	Pumped to <1ft 3A Upper	3A Cell Pondmg		Precipitation (inches)
8/23/2010			0	0		0
8/24/2010	0	0	1 000	0		0
8/25/2010			0	0		0
8/26/2010			0	0		0
8/27/2010			1 000	0		0
8/28/2010					Weekend	0
8/29/2010					Weekend	0
8/30/2010			1 000	0		0 22
8/31/2010	850	2 000	0	0		0
9/1/2010	444	587	1 000	0		0
9/2/2010	186	272	1 000	0		0
9/3/2010	43	244	500	0		0
9/4/2010					Weekend	0
9/5/2010					Weekend	0
9/6/2010					Holiday	0
9/7/2010	14	258	200	0		0
9/8/2010	4	157	100	0		0
9/9/2010	11	157	258	0		0
9/10/2010	11	143	100	0		0
9/11/2010					Weekend	0
9/12/2010					Weekend	0
9/13/2010	0	50	250	0		0
9/14/2010	0	86	100	0		0
9/15/2010	0	35	50	0		0
9/16/2010	0	40	10	0		0
9/17/2010	0	7	30	0		0
9/18/2010					Weekend	0
9/19/2010					Weekend	0
9/20/2010	2	17	100	0		0
9/21/2010	0	12	250	0		0
9/22/2010	0	22	Not Collecting	0		0
9/23/2010	0	32	Not Collecting	0		0
9/24/2010	2	37	Not Collecting	0		0
9/25/2010					Weekend	0
9/26/2010					Weekend	0
9/27/2010	10	34	55	0		0
9/28/2010	4	22	Not Collecting	0		0
9/29/2010	0 5	21	Not Collecting	0		0
9/30/2010	0 5	17	Not Collecting	0		0



***Analytical Data***

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556 8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUI 02 Mixed Waste HSWA

Report Date September 24 2010

Client Sample ID FO 39 3A Upper  
Sample ID 260453001  
Matrix Misc Liquid  
Collect Date 09 SEP 10 10 00  
Receive Date 10-SEP 10  
Collector Client

Project CARE EUI 02  
Client ID CARE004

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Alcohols											
SW846 8015C Alcohols Liquid As Received"											
Methanol	U	ND	600	2000	ug/L	1	KXR2	09/20/10	1917	1026563	1
Flow Injection Analysis											
SW846 9012B Cyanide Amenable As Received											
SW9012B Cvamde Total As Received											
Cyanide Total		43.4	1.70	5.00	ug/L	1	SDS	09/16/10	0847	1024519	3
SW846 9012B Cyanide Amenable See Parent Products"											
Cyanide Amenable to CL	U	ND	1.70	5.00	ug/L	1	JBH	09/23/10	0924	1023588	4
Ion Chromatography											
EPA300.0 Fluoride in Liquid As Received											
Fluoride		13.4	3.30	10.0	mg/L	100	VH1	09/16/10	1949	1024737	5
Mercury Analysis CVAA											
7470 Cold Vapor Hg Liquid As Received"											
Mercury		55.3	0.660	2.00	ug/L	1	JXL1	09/23/10	1023	1026218	6
Metals Analysis ICP											
SW846 3010A/6010C Liquid Total Metals As Received"											
Lead		1980	33.0	100	ug/L	1	HSC	09/20/10	1937	1024732	7
Antimony	U	ND	1500	5000	ug/L	50	HSC	09/17/10	1722	1024732	8
Arsenic	U	ND	2500	15000	ug/L	50					
Barium	U	ND	500	2500	ug/L	50					
Beryllium	U	ND	500	2500	ug/L	50					
Cadmium	U	ND	500	2500	ug/L	50					
Chromium	U	ND	500	2500	ug/L	50					
Nickel		15200	750	2500	ug/L	50					
Selenium	U	ND	2500	15000	ug/L	50					
Silver	J	500	500	2500	ug/L	50					
Thallium	U	ND	2500	10000	ug/L	50					
Zinc		34000	1650	5000	ug/L	50					
Semi Volatile GC/MS											
HSWA Total SVOA Liquid As Received											
1,2,4,5-Tetrachlorobenzene	U	ND	300	1000	ug/L	10	JMB3	09/17/10	1814	1024414	9
1,2,4-Trichlorobenzene	U	ND	200	1000	ug/L	10					
1,2-Dichlorobenzene	U	ND	200	1000	ug/L	10					
1,2-Diphenylhydrazine	U	ND	200	1000	ug/L	10					
1,3,5-Trinitrobenzene	U	ND	300	1000	ug/L	10					
1,3-Dichlorobenzene	U	ND	200	1000	ug/L	10					

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr. Allan Erichsen  
Project EUJ 02 Mixed Waste HSWA

Report Date September 24 2010

Client Sample ID Sample ID		FO 39 3A Upper 260453001		Project Client ID		CARE EUI 02 CARE004			
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time Batch Method
Semi Volatile GC/MS									
HSWA Total SVOA Liquid As Received									
1 4 Dichlorobenzene	U	ND	200	1000	ug/L	10			
1 4 Dinitrobenzene	U	ND	500	5000	ug/L	10			
1 4 Naphthoquinone	U	ND	300	1000	ug/L	10			
1 Naphthylamine	U	ND	300	1000	ug/L	10			
2 3 4 6-Tetrachlorophenol	U	ND	200	1000	ug/L	10			
2 4 5 Trichlorophenol	U	ND	200	1000	ug/L	10			
2 4 6 Trichlorophenol	U	ND	200	1000	ug/L	10			
2 4 Dichlorophenol	U	ND	200	1000	ug/L	10			
2 4 Dimethylphenol	U	ND	200	1000	ug/L	10			
2 4 Dinitrophenol	U	ND	500	2000	ug/L	10			
2 4 Dinitrotoluene	U	ND	200	1000	ug/L	10			
2 6 Dichlorophenol	U	ND	200	1000	ug/L	10			
2 6 Dinitrotoluene	U	ND	200	1000	ug/L	10			
2 Acetylaminofluorene	U	ND	300	1000	ug/L	10			
2 Chloronaphthalene	U	ND	300	100	ug/L	10			
2 Chlorophenol	U	ND	200	1000	ug/L	10			
2 Methyl 4 6 dinitrophenol	U	ND	300	1000	ug/L	10			
2 Methylnaphthalene	U	ND	300	100	ug/L	10			
2 Naphthylamine	U	ND	300	1000	ug/L	10			
2 Nitrophenol	U	ND	200	1000	ug/L	10			
2 Picolme	U	ND	300	1000	ug/L	10			
3 3 Dichlorobenzidine	U	ND	200	1000	ug/L	10			
3 3 Dimethylbenzidine	U	ND	330	1000	ug/L	10			
3 Methylcholanthrene	U	ND	200	1000	ug/L	10			
4 Aminobiphenyl	U	ND	300	1000	ug/L	10			
4 Bromophenylphenylether	U	ND	200	1000	ug/L	10			
4 Chloro 3 methylphenol	U	ND	200	1000	ug/L	10			
4 Chloroaniline	U	ND	200	1000	ug/L	10			
4 Chlorophenylphenylether	U	ND	200	1000	ug/L	10			
4 Nitrophenol	U	ND	200	1000	ug/L	10			
4 Nitroquinoline 1 oxide	U	ND	300	1000	ug/L	10			
5 Nitro o-toluidine	U	ND	300	1000	ug/L	10			
7 12	U	ND	300	1000	ug/L	10			
Dimethylbenz(a)anthracene									
Acenaphthene	U	ND	310	100	ug/L	10			
Acenaphthylene	U	ND	200	100	ug/L	10			
Acetophenone	U	ND	200	1000	ug/L	10			
Amime	U	ND	250	1000	ug/L	10			
Anthracene	U	ND	200	100	ug/L	10			
Aramite	U	ND	300	1000	ug/L	10			

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Contact Mr. Allan Enchsen  
Project EUI 02 Mixed Waste HSWA

Report Date September 24 2010

Client Sample ID Sample ID		FO 39 3A Upper 260453001		Project Client ID		CARE EUI 02 CARE004			
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time Batch Method
Semi Volatile GC/MS									
HSWA Total SVOA Liquid As Received"									
Benzo(a)anthracene	U	ND	20.0	100	ug/L	10			
Benzo(a)pyrene	U	ND	20.0	100	ug/L	10			
Benzo(b)fluoranthene	U	ND	20.0	100	ug/L	10			
Benzo(ghi)perylene	U	ND	20.0	100	ug/L	10			
Benzo(k)fluoranthene	U	ND	20.0	100	ug/L	10			
Benzyl alcohol	U	ND	200	1000	ug/L	10			
Butylbenzylphthalate	U	ND	200	1000	ug/L	10			
Chlorobenzilate	U	ND	300	1000	ug/L	10			
Chrysene	U	ND	20.0	100	ug/L	10			
D1 n butylphthalate	U	ND	200	1000	ug/L	10			
D1 n octylphthalate	U	ND	300	1000	ug/L	10			
Diallate	U	ND	300	1000	ug/L	10			
Dibenzo(a e)pyrene	U	ND	300	1000	ug/L	10			
Dibenzo(a h)anthracene	U	ND	20.0	100	ug/L	10			
Dibenzofuran	U	ND	200	1000	ug/L	10			
Diethylphthalate	U	ND	200	1000	ug/L	10			
Dimethoate	U	ND	200	1000	ug/L	10			
Dimethylphthalate	U	ND	200	1000	ug/L	10			
Diphenylamine	U	ND	300	1000	ug/L	10			
Disulfoton	U	ND	200	1000	ug/L	10			
Ethyl Methanesulfonate	U	ND	200	1000	ug/L	10			
Famphur	U	ND	300	1000	ug/L	10			
Fluoranthene	J	24.0	20.0	100	ug/L	10			
Fluorene	U	ND	20.0	100	ug/L	10			
Hexachlorobenzene	U	ND	200	1000	ug/L	10			
Hexachlorobutadiene	U	ND	200	1000	ug/L	10			
Hexachlorocyclopentadiene	U	ND	300	1000	ug/L	10			
Hexachloroethane	U	ND	200	1000	ug/L	10			
Hexachloropropene	U	ND	300	1000	ug/L	10			
Indeno(1 2 3-cd)pyrene	U	ND	20.0	100	ug/L	10			
Isodrin	U	ND	300	1000	ug/L	10			
Isophorone	U	ND	300	1000	ug/L	10			
Isosafrole	U	ND	200	1000	ug/L	10			
Kepone	U	ND	300	1000	ug/L	10			
Methapyrilene	U	ND	300	1000	ug/L	10			
Methyl methanesulfonate	U	ND	200	1000	ug/L	10			
Methyl parathion	U	ND	200	1000	ug/L	10			
N Methyl N	U	ND	200	1000	ug/L	10			
nitrosomethylamine									
N Nitrosodi n butylamine	U	ND	300	1000	ug/L	10			
N Nitrosodiethylamine	U	ND	200	1000	ug/L	10			

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions,LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUJ 02 Mixed Waste HSWA

Report Date September 24 2010

Client Sample ID		FO 39 3A Upper		Project		CARE EUI 02	
Sample ID		260453001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
<b>Semi Volatile-GC/MS</b>							
<i>HSWA Total SVOA Liquid As Received</i>							
N Nitrosodipropylamine	U	ND	200	1000	ug/L	10	
N Nitrosomethylethylamine	U	ND	200	1000	ug/L	10	
N Nitrosomorpholine	U	ND	200	1000	ug/L	10	
N Nitrosopiperidine	U	ND	200	1000	ug/L	10	
N Nitrosopyrrolidine	U	ND	200	1000	ug/L	10	
Naphthalene	U	ND	300	100	ug/L	10	
Nitrobenzene	U	ND	300	1000	ug/L	10	
Parathion	U	ND	300	1000	ug/L	10	
Pentachlorobenzene	U	ND	300	1000	ug/L	10	
Pentachloroethane	U	ND	300	1000	ug/L	10	
Pentachloronitrobenzene	U	ND	200	1000	ug/L	10	
Pentachlorophenol	U	ND	200	1000	ug/L	10	
Phenacetin	U	ND	200	1000	ug/L	10	
Phenanthrene	J	330	200	100	ug/L	10	
Phenol	U	ND	100	1000	ug/L	10	
Phorate	U	ND	200	1000	ug/L	10	
Pronamide	U	ND	300	1000	ug/L	10	
Pyrene	U	ND	300	100	ug/L	10	
Pyridine	U	ND	300	1000	ug/L	10	
Saffrole	U	ND	200	1000	ug/L	10	
Sulfatepp	U	ND	200	1000	ug/L	10	
Thionazin	U	ND	200	1000	ug/L	10	
Triethylphosphorothioate	U	ND	200	1000	ug/L	10	
aa	U	ND	300	1000	ug/L	10	
Dimethylphenethylamine							
bis(2	U	ND	300	1000	ug/L	10	
Chloroethoxy)methane							
bis(2 Chloroethyl) ether	U	ND	200	1000	ug/L	10	
bis(2 Chloroisopropyl)ether	U	ND	200	1000	ug/L	10	
bis(2 Ethylhexyl)phthalate	J	205	200	1000	ug/L	10	
m p Cresols	U	ND	300	1000	ug/L	10	
m Dinitrobenzene	U	ND	200	1000	ug/L	10	
m Nitroaniline	U	ND	200	1000	ug/L	10	
o Cresol	U	ND	200	1000	ug/L	10	
o Nitroaniline	U	ND	200	1000	ug/L	10	
o Toluidine	U	ND	300	1000	ug/L	10	
p	U	ND	300	1000	ug/L	10	
(Dimethylamino)azobenzene							
p Nitroaniline	U	ND	300	1000	ug/L	10	
p Phenylenediamine	U	ND	200	2000	ug/L	10	
Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/17/10 18 14	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr Allan Enchsen  
Project EUI 02 Mixed Waste HSWA

Repon Date September 24 2010

Parameter	Client Sample ID Sample ID	FO 39 3A Upper 260453001	Protect Client ID	CARE EUI 02 CARE004	DF	Analyst	Date	Time	Batch	Method
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### Semi Volatile GC/MS

HSWA Total SVOA Liquid As Received

2 4 6 Tnbromopbenol	105 ug/L	1000	10 5	(21% 136%)	*
Phenol-d5	224 ug/L	1000	22 4	(10% 61%)	
2 Fluorophenol	294 ug/L	1000	29 4	(7% 88%)	
2 Fluorobiphenyl	400 ug/L	500	80 0	(32% 110%)	
Nitrobenzene d5	446 ug/L	500	89 2	(33% 115%)	
p Terphenyl d14	472 ug/L	500	94 4	(44% 140%)	

Tentatively Identified Compound (TIC)	CAS No	RT	Est Concentration	Fit	Qual	Date Time	09/17/10 18 14
Bacchotricneatm c	066563 30 2	8 94	916 ug/L	95	NJ		
unknown		16 59	402 ug/L	0	J		

### Semi Volatiles HERB

8151A Herbicide H2O% As Received

2 4 5 T	U	ND	0 830	2 50	ug/L	1	TXK2 09/15/10 2350 1024404	10
2 4 5 TP	J	0 975	0 830	2 50	ug/L	1		
2 4 D	U	ND	0 830	2 50	ug/L	1		
Dinoseb	U	ND	0 830	2 50	ug/L	1		

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/15/10 23 50
2 4 Dichlorophenylacetic acid	62 2 ug/L	50 0	124	(37% 151%)		

### Semi Volatiles PCB

SW846 3510C/8082A PCB Liquids As Received

Aroclor 1016	U	ND	1 67	5 00	ug/L	5	YSI 09/21/10 0837 1025918	11
Aroclor 1221	U	ND	1 67	5 00	ug/L	5		
Aroclor 1232	U	ND	1 67	5 00	ug/L	5		
Aroclor 1248	U	ND	1 67	5 00	ug/L	5		
Aroclor 1254		12 9	1 67	5 00	ug/L	5		
Aroclor 1242		9 40	1 67	5 00	ug/L	5	YSI 09/21/10 0837 1025918	12
Aroclor 1260	J	3 70	1 67	5 00	ug/L	5		

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/21/10 08 37
Decachlorobiphenyl	0 834 ug/L	2 00	41 7	(30% 124%)		
4cmx	1 19 ug/L	2 00	59 3	(30% 111%)		

### Semi Volatiles Pesticide

SW846 3550C/8081B Liquid As Received

2 4 DDD	U	ND	0 100	0 400	ug/L	2	RXE1 09/17/10 2152 1024428	13
2 4 DDE	U	ND	0 120	0 400	ug/L	2		
2 4 DDT	U	ND	0 100	0 400	ug/L	2		
4 4 DDD	U	ND	0 200	0 800	ug/L	2		

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## Certificate of Analysis

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Contact Mr Allan Enchsen  
Project EUI 02 Mixed Waste HSWA

Report Date September 24 2010

Client Sample ID Sample ID		FO 39 3A Upper 260453001		Project Client ID		CARE EUI-02 CARE004					
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi Volatiles Pesticide											
SW846 3550C/8081B Liquid As Received											
4 4 DDE	U	ND	0 100	0 800	ug/L	2					
4 4 DDT	U	ND	0 200	0 800	ug/L	2					
Aldnn	U	ND	0 100	0 400	ug/L	2					
Chlordane (tech )	U	ND	1 53	5 00	ug/L	2					
Dieldnn	U	ND	0 200	0 800	ug/L	2					
Endosulfan I	U	ND	0 100	0 400	ug/L	2					
Endosulfan II	U	ND	0 200	0 800	ug/L	2					
Endosulfan sulfate	U	ND	0 200	0 800	ug/L	2					
Endnn	U	ND	0 200	0 800	ug/L	2					
Endnn aldehyde	U	ND	0 100	0 800	ug/L	2					
Heptachlor	U	ND	0 100	0 400	ug/L	2					
Heptachlor epoxide	U	ND	0 100	0 400	ug/L	2					
Methoxychlor	U	ND	1 00	4 00	ug/L	2					
Toxaphene	U	ND	3 00	10 0	ug/L	2					
alpha BHC	U	ND	0 100	0 400	ug/L	2					
beta BHC	U	ND	0 120	0 400	ug/L	2					
delta BHC	U	ND	0 100	0 400	ug/L	2					
gamma BHC (Lmdane)	U	ND	0 100	0 400	ug/L	2					
Surrogate/Tracer recovery		Result	Nominal	Recovery%	Acceptable Limits		Date	Time	09/17/10 21 52		
4cmx		15 8 ug/L	10 0	158	(30% 111%)	*					
Decachlorobiphenyl		16 7 ug/L	10 0	167	(30% 124%)	*					
Spectrometric Analysis											
EPA 376 2 Sulfide Liquid As Received											
Total Sulfide	U	ND	0 750	2 50	mg/L	25	TXT1	09/15/10	1257	1024633	15
Volatile Organics											
8260B Appendix IX volatiles As Received											
1 1 1 2 Tetrachloroethane	U	ND	3 00	10 0	ug/L	10	AXO1	09/22/10	1527	1026841	16
1 1 1 Trichloroethane	U	ND	3 25	10 0	ug/L	10					
1 1 2 2 Tetrachloroethane	U	ND	2 50	10 0	ug/L	10					
1 1 2 Tnchloroethane	U	ND	2 50	10 0	ug/L	10					
1 1 Dichloroethane	U	ND	3 00	10 0	ug/L	10					
1 1 Dichloroethylene	U	ND	3 00	10 0	ug/L	10					
1 2 3 Tnchloropropane	U	ND	3 00	10 0	ug/L	10					
1 2 Dibromo 3 chloropropane	U	ND	3 00	10 0	ug/L	10					
1 2 Dibromoethane	U	ND	2 50	10 0	ug/L	10					
1 2 Dichloroethane	U	ND	2 50	10 0	ug/L	10					
1 2 Dichloroethylene (total)	U	ND	3 00	10 0	ug/L	10					
1 2 Dichloropropane	U	ND	2 50	10 0	ug/L	10					

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Client Sample ID		FO 39 3A Upper		Project		CARE EUI-02	
Sample ID		260453001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
<b>Volatile Organics</b>							
<i>8260B Appendix IX volatiles As Received</i>							
1 4 Dioxane	U	ND	150	500	ug/L	10	
2 Butanone	U	ND	12 5	50 0	ug/L	10	
2 Chloro-1 3 butadiene	U	ND	3 00	10 0	ug/L	10	
2 Hexanone	U	ND	12 5	50 0	ug/L	10	
4 Methyl 2 pentanone	U	ND	12 5	50 0	ug/L	10	
Acetone	U	ND	15 0	50 0	ug/L	10	
Acetonitrile	U	ND	62 5	250	ug/L	10	
Acrolein	U	ND	12 5	50 0	ug/L	10	
Acrylonitrile	U	ND	10 0	50 0	ug/L	10	
Allyl chloride	U	ND	15 0	50 0	ug/L	10	
Benzene	U	ND	3 00	10 0	ug/L	10	
Bromodichloromethane	U	ND	2 50	10 0	ug/L	10	
Bromoform	U	ND	2 50	10 0	ug/L	10	
Bromomethane	U	ND	3 00	10 0	ug/L	10	
Carbon disulfide	U	ND	12 5	50 0	ug/L	10	
Carbon tetrachloride	U	ND	3 00	10 0	ug/L	10	
Chlorobenzene	U	ND	2 50	10 0	ug/L	10	
Chloroethane	U	ND	3 00	10 0	ug/L	10	
Chloroform	U	ND	2 50	10 0	ug/L	10	
Chloromethane	U	ND	3 00	10 0	ug/L	10	
Cyclohexanone	U	ND	150	500	ug/L	10	
Dibromochloromethane	U	ND	3 00	10 0	ug/L	10	
Dibromomethane	U	ND	3 00	10 0	ug/L	10	
Dichlorodifluoromethane	U	ND	3 00	10 0	ug/L	10	
Ethyl acetate	U	ND	16 0	50 0	ug/L	10	
Ethyl ether	U	ND	3 00	10 0	ug/L	10	
Ethyl methacrylate	U	ND	10 0	50 0	ug/L	10	
Ethylbenzene	U	ND	2 50	10 0	ug/L	10	
Iodomethane	U	ND	12 5	50 0	ug/L	10	
Isobutyl alcohol	U	ND	125	500	ug/L	10	
Methacrylonitrile	U	ND	10 0	50 0	ug/L	10	
Methyl methacrylate	U	ND	10 0	50 0	ug/L	10	
Methylene chloride	U	ND	20 0	50 0	ug/L	10	
Pentachloroethane	U	ND	10 0	50 0	ug/L	10	
Propionitrile	U	ND	15 0	50 0	ug/L	10	
Styrene	U	ND	2 50	10 0	ug/L	10	
Tetrachloroethylene	U	ND	3 00	10 0	ug/L	10	
Toluene	U	ND	2 50	10 0	ug/L	10	
Trichloroethylene	U	ND	2 50	10 0	ug/L	10	
Trichlorofluoromethane	U	ND	3 00	10 0	ug/L	10	
Trichlorotrifluoroethane	U	ND	10 0	50 0	ug/L	10	



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Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Volatile Organics

#### 8260B Appendix IX volatiles As Received

Vinyl acetate	U	ND	15 0	50 0	ug/L	10					
Vinyl chloride	U	ND	5 00	10 0	ug/L	10					
Xylenes (total)	U	ND	3 00	10 0	ug/L	10					
cis 1 3 Dichloropropylene	U	ND	2 50	10 0	ug/L	10					
n Butyl alcohol	U	ND	150	500	ug/L	10					
trans 1 2 Dichloroethylene	U	ND	3 00	10 0	ug/L	10					
trans 1 3	U	ND	2 50	10 0	ug/L	10					
Dichloropropylene											
trans 1 4 Dichloro 2 butene	U	ND	10 0	50 0	ug/L	10					

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/22/10 15 27
Bromofluorobenzene	472 ug/L	50 0	94 5	(80% 120%)		
Toluene d8	488 ug/L	50 0	97 5	(80% 120%)		
1 2 Dichloroethane d4	605 ug/L	50 0	121	(71% 130%)		

Tentatively Identified Compound (TIC)	CAS No	RT	Est. Concentration	Fu	Qual	Date Time	09/22/10 15 27
No Tentatively Identified Compounds Found							

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3010A	ICP TRACE SW846 3010A	BXA1	09/16/10	1810	1024731
SW846 3510C	3510C Pesticide Prep H2O	SXS3	09/16/10	2213	1024427
SW846 3510C	3510C for PCB 8082A H2O	JXC7	09/20/10	1351	1025917
SW846 3510C	SW846 3510C Prep Semivolatiles 8270D	RXC1	09/15/10	1909	1024413
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	09/16/10	1000	1025057
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	09/22/10	1030	1026217
SW846 8151A	8151A Herbicide Prep	SXC2	09/15/10	1431	1024403
SW846 9010C Distillation	SW846 9010C Prep	AXS5	09/15/10	1555	1024518
SW846 9012B	SW846 9012B Cyanide Amenable to Chlorine	AXS5	09/15/10	1555	1023586

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8015C	
2	SW846 9012B	
3	SW846 9012B	
4	SW846 9012B	
5	EPA 300 0	
6	SW846 7470A	

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Contact Mr. Allan Enchsen  
Project EUJ-02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID	F039 MW3A MID	Project	CARE EUJ 02
Sample ID	260018001	Client ID	CARE004
Matrix	Misc Liquid		
Collect Date	31 AUG 10 10 30		
Receive Date	02 SEP 10		
Collector	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Alcohols</b>											
<i>SW846 8015C Alcohols Liquid As Received</i>											
Methanol	U	ND	600	2000	ug/L	1	KXR2	09/10/10	2047	1022734	1
<b>Electrode Analysis</b>											
<i>SW9040C pH As Received</i>											
pH at Temp 19 7C	H	7.32			SU	1	LXA1	09/14/10	1444	1024246	2
<b>Flow Injection Analysis</b>											
<i>SW 7 3 3 Reactivity Releasable As Received*</i>											
Reactive Releasable Cyanide	<	250000		250000	ug/L	1	SDS	09/07/10	1045	1021412	3
<i>SW846 9012B Cyanide Amenable As Received</i>											
<i>SW9012B Cyanide Total As Received</i>											
Cyanide Total		14.0	1.70	5.00	ug/L	1	SDS	09/08/10	1231	1021414	5
<i>SW846 9012B Cyanide Amenable See Parent Products</i>											
Cyanide Amenable to CL	U	ND	8.50	25.0	ug/L	1	SDS	09/09/10	1154	1021419	6
<b>Hazardous Waste</b>											
<i>SW1020B Setajlash Flash Point 140 As Received</i>											
Setajlash 140		>140	75.0	75.0	Fahrenheit	1	AXS5	09/15/10	1416	1024642	7
<b>Ion Chromatography</b>											
<i>EPA300.0 Fluoride in Liquid As Received</i>											
Fluoride	U	ND	16.5	50.0	mg/L	500	VH1	09/07/10	1944	1021244	8
<b>Mercury Analysis-CVAA</b>											
<i>7470 Cold Vapor Hg Liquid As Received</i>											
Mercury	U	ND	6.60	20.0	ug/L	1	JXL1	09/14/10	0700	1023748	9
<b>Metals Analysis ICP</b>											
<i>SW846 3010A/6010C Liquid Total Metals As Received</i>											
Antimony	U	ND	30.0	100	ug/L	1	JWJ	09/10/10	0736	1021249	10
Arsenic	J	250	50.0	300	ug/L	1					
Barium		123	10.0	50.0	ug/L	1					
Beryllium	U	ND	10.0	50.0	ug/L	1					
Cadmium	J	18.1	10.0	50.0	ug/L	1					
Chromium		50.2	10.0	50.0	ug/L	1					
Lead		1920	33.0	100	ug/L	1					
Nickel		6060	15.0	50.0	ug/L	1					
Selenium	U	ND	50.0	300	ug/L	1					
Silver	J	13.6	10.0	50.0	ug/L	1					
Thallium		288	50.0	200	ug/L	1					

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Project EUI-02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		1-039 MW3A MID		Project		CARE EUI 02	
Sample ID		260018001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
<b>Metals Analysis ICP</b>							
<i>SW846 3010A/6010C Liquid Total Metals As Received</i>							
Zinc		25800	330	100	ug/L	1	
<b>Semi Volatile-GC/MS</b>							
<i>HSWA Total SVOA Liquid As Received</i>							
1 2 4 5 Tetrachlorobenzene	U	ND	300	100	ug/L	1	AGS1 09/07/10 2044 1021671 11
1 2 4 Trichlorobenzene	U	ND	200	100	ug/L	1	
1 2 Dichlorobenzene	U	ND	200	100	ug/L	1	
1 2 Diphenylhydrazine	U	ND	200	100	ug/L	1	
1 3 5 Trinitrobenzene	U	ND	300	100	ug/L	1	
1 3 Dichlorobenzene	U	ND	200	100	ug/L	1	
1 4 Dichlorobenzene	U	ND	200	100	ug/L	1	
1 4 Dinitrobenzene	U	ND	500	500	ug/L	1	
1 4 Naphthoquinone	U	ND	300	100	ug/L	1	
1 Naphthylamine	U	ND	300	100	ug/L	1	
2 3 4 6 Tetrachlorophenol	U	ND	200	100	ug/L	1	
2 4 5 Trichlorophenol	U	ND	200	100	ug/L	1	
2 4 6 Trichlorophenol	U	ND	200	100	ug/L	1	
2 4 Dichlorophenol	U	ND	200	100	ug/L	1	
2 4 Dimethylphenol	U	ND	200	100	ug/L	1	
2 4 Dimitrophenol	U	ND	500	200	ug/L	1	
2 4 Dinitrotoluene	U	ND	200	100	ug/L	1	
2 6 Dichlorophenol	U	ND	200	100	ug/L	1	
2 6 Dinitrotoluene	U	ND	200	100	ug/L	1	
2 Acetylaminofluorene	U	ND	300	100	ug/L	1	
2 Chloronaphthalene	U	ND	0.300	100	ug/L	1	
2 Chlorophenol	U	ND	200	100	ug/L	1	
2 Methyl 4 6 dimitrophenol	U	ND	300	100	ug/L	1	
2 Methylnaphthalene	U	ND	0.300	100	ug/L	1	
2 Naphthylamine	U	ND	300	100	ug/L	1	
2 Nitrophenol	U	ND	200	100	ug/L	1	
2 Picoline	U	ND	300	100	ug/L	1	
3 3 Dichlorobenzidine	U	ND	200	100	ug/L	1	
3 3 Dimethylbenzidine	U	ND	3.30	100	ug/L	1	
3 Methylcholanthrene	U	ND	200	100	ug/L	1	
4 Aminobiphenyl	U	ND	300	100	ug/L	1	
4 Bromophenylphenylether	U	ND	200	100	ug/L	1	
4 Chloro 3 methylphenol	U	ND	200	100	ug/L	1	
4 Chloroaniline	U	ND	200	100	ug/L	1	
4 Chlorophenylphenylether	U	ND	200	100	ug/L	1	
4 Nitrophenol	U	ND	200	100	ug/L	1	
4 Nitroquinoline 1 oxide	U	ND	300	100	ug/L	1	

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Client Sample ID		F039 MW3A MID		Project		CARE EU1 02	
Sample ID		260018001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
Semi Volatile-GC/MS							
HSWA Total SVOA Liquid As Received							
5 Nitro-o toluidine	U	ND	3 00	10 0	ug/L	1	
7 12	U	ND	3 00	10 0	ug/L	1	
Dimethylbenz(a)anthracene							
Acenaphthene	U	ND	0 310	1 00	ug/L	1	
Acenaphthylene	U	ND	0 200	1 00	ug/L	1	
Acetophenone	U	ND	2 00	10 0	ug/L	1	
Aniline	U	ND	2 50	10 0	ug/L	1	
Anthracene	U	ND	0 200	1 00	ug/L	1	
Aramite	U	ND	3 00	10 0	ug/L	1	
Benzo(a)anthracene	U	ND	0 200	1 00	ug/L	1	
Benzo(a)pyrene	J	0 602	0 200	1 00	ug/L	1	
Benzo(b)fluoranthene	J	0 583	0 200	1 00	ug/L	1	
Benzo(ghi)perylene	U	ND	0 200	1 00	ug/L	1	
Benzo(k)fluoranthene	J	0 660	0 200	1 00	ug/L	1	
Benzyl alcohol	U	ND	2 00	10 0	ug/L	1	
Butylbenzylphthalate	U	ND	2 00	10 0	ug/L	1	
Chlorobenzilate	U	ND	3 00	10 0	ug/L	1	
Chrysene	J	0 750	0 200	1 00	ug/L	1	
Di n butylphthalate	U	ND	2 00	10 0	ug/L	1	
Di n octylphthalate	U	ND	3 00	10 0	ug/L	1	
Diallate	U	ND	3 00	10 0	ug/L	1	
Dibenzo(a c)pyrene	U	ND	3 00	10 0	ug/L	1	
Dibenzo(a h)anthracene	U	ND	0 200	1 00	ug/L	1	
Dibenzofuran	U	ND	2 00	10 0	ug/L	1	
Diethylphthalate	U	ND	2 00	10 0	ug/L	1	
Dimethoate	U	ND	2 00	10 0	ug/L	1	
Dimethylphthalate	U	ND	2 00	10 0	ug/L	1	
Diphenylamine	U	ND	3 00	10 0	ug/L	1	
Disulfoton	U	ND	2 00	10 0	ug/L	1	
Ethyl Methanesulfonate	U	ND	2 00	10 0	ug/L	1	
Famphur	U	ND	3 00	10 0	ug/L	1	
Fluoranthene	U	ND	0 200	1 00	ug/L	1	
Fluorene	U	ND	0 200	1 00	ug/L	1	
Hexachlorobenzene	U	ND	2 00	10 0	ug/L	1	
Hexachlorobuladiene	U	ND	2 00	10 0	ug/L	1	
Hexachlorocyclopentadiene	U	ND	3 00	10 0	ug/L	1	
Hexachloroethane	U	ND	2 00	10 0	ug/L	1	
Hexachloropropene	U	ND	3 00	10 0	ug/L	1	
Indeno(1 2 3 cd)pyrene	U	ND	0 200	1 00	ug/L	1	
Isodrin	U	ND	3 00	10 0	ug/L	1	
Isophorone	U	ND	3 00	10 0	ug/L	1	

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Client Sample ID		F039 MW3A MID		Project		CARE EUI 02	
Sample ID		260018001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
Semi Volatile GC/MS							
HSWA Total SYOA Liquid As Received							
Isosafrole	U	ND	2.00	10.0	ug/L	1	
Kepone	U	ND	3.00	10.0	ug/L	1	
Methapyriline	U	ND	3.00	10.0	ug/L	1	
Methyl methanesulfonate	U	ND	2.00	10.0	ug/L	1	
Methyl parathion	U	ND	2.00	10.0	ug/L	1	
N Methyl N	U	ND	2.00	10.0	ug/L	1	
nitrosomethylamine							
N Nitrosodi n butylamine	U	ND	3.00	10.0	ug/L	1	
N Nitrosodiethylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosodipropylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosomethylethylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosomorpholine	U	ND	2.00	10.0	ug/L	1	
N Nitrosopiperidine	U	ND	2.00	10.0	ug/L	1	
N Nitrosopyrrolidine	U	ND	2.00	10.0	ug/L	1	
Naphthalene	U	ND	0.300	1.00	ug/L	1	
Nitrobenzene	U	ND	3.00	10.0	ug/L	1	
Parathion	U	ND	3.00	10.0	ug/L	1	
Pentachlorobenzene	U	ND	3.00	10.0	ug/L	1	
Pentachloroethane	U	ND	3.00	10.0	ug/L	1	
Pentachloronitrobenzene	U	ND	2.00	10.0	ug/L	1	
Pentachlorophenol	U	ND	2.00	10.0	ug/L	1	
Phenacetin	U	ND	2.00	10.0	ug/L	1	
Phenanthrene	U	ND	0.200	1.00	ug/L	1	
Phenol	U	ND	1.00	10.0	ug/L	1	
Phorate	U	ND	2.00	10.0	ug/L	1	
Pronamide	U	ND	3.00	10.0	ug/L	1	
Pyrene	U	ND	0.300	1.00	ug/L	1	
Pyridine	U	ND	3.00	10.0	ug/L	1	
Safrole	U	ND	2.00	10.0	ug/L	1	
Sulfotep	U	ND	2.00	10.0	ug/L	1	
Thionazin	U	ND	2.00	10.0	ug/L	1	
Tnethylphosphorothioate	U	ND	2.00	10.0	ug/L	1	
a a	U	ND	3.00	10.0	ug/L	1	
Dimethylphenethylamine							
bis(2	U	ND	3.00	10.0	ug/L	1	
Chloroethoxy)methane							
bis(2 Chloroethyl) ether	U	ND	2.00	10.0	ug/L	1	
bis(2 Chloroisopropyl)ether	U	ND	2.00	10.0	ug/L	1	
bis(2 Ethylhexyl)phthalate	U	ND	2.00	10.0	ug/L	1	
m p Cresols	U	ND	3.00	10.0	ug/L	1	
m Dimitrobenzene	U	ND	2.00	10.0	ug/L	1	

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 Contact Mr Allan Enchsen  
 Project EUI 02 Mixed Waste HSWA

Report Date September 21 2010

Parameter	Qualifier	Result	DL	RL	Units	DI	Analyst	Date	Time	Batch	Method
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**Semi Volatile GC/MS****HSWA Total SVOA Liquid As Received**

m Nitroaniline	U	ND	2 00	10 0	ug/L	I					
o Cresol	U	ND	2 00	10 0	ug/L	I					
o Nitroaniline	U	ND	2 00	10 0	ug/L	I					
o Toluidine	U	ND	3 00	10 0	ug/L	I					
p (Dimethylamino)azobenzene	U	ND	3 00	10 0	ug/L	I					
p Nitroaniline	U	ND	3 00	10 0	ug/L	I					
p Phenylenediamine	U	ND	2 00	20 0	ug/L	I					

Surrogate/Tracer recovery	Result	Nominal	Recovery %	Acceptable Limits	Date Time	09/07/10 20 44
Phenol d5	13 6 ug/L	100	13 6	(10% 61%)		
2 Fluorobiphenyl	34 5 ug/L	50 0	69 0	(32% 110%)		
2 Fluorophenol	36 1 ug/L	100	36 1	(7% 88%)		
p Terphenyl d14	38 2 ug/L	50 0	76 5	(44% 140%)		
Nitrobenzene d5	44 0 ug/L	50 0	88 0	(33% 115%)		
2 4 6 Tribromophenol	93 8 ug/L	100	93 8	(21% 136%)		

Tentatively Identified Compound (TIC)	CAS No	RT	Est Concentration	Fit	Qual	Date Time	09/07/10 20 44
Unknown		1 91	35 2 ug/L		J		
Unknown		1 96	4 73 ug/L		J		
Cyclopentene 1 2 3 3 4 pentamethyl	197390 29 7	3 55	5 77 ug/L	90	NJ		
Unknown		4 14	5 42 ug/L		J		
Urea tetramethyl	632 22-4	4 23	18 7 ug/L	91	NJ		
Unknown		9 73	6 47 ug/L		J		
7 9 Di tert butyl 1 oxaspiro(4 5)deca 6	82304 66 3	9 79	8 19 ug/L	99	NJ		

**Semi Volatiles HERB****8151A Herbicide H2O% As Received**

2 4 5 T	U	ND	0 0783	0 236	ug/L	I	TXK2 09/13/10 1815 1021682 12
2 4 5 TP	U	ND	0 0783	0 236	ug/L	I	
2 4 D	U	ND	0 0783	0 236	ug/L	I	
Dimoseb	U	ND	0 0783	0 236	ug/L	I	

Surrogate/Tracer recovery	Result	Nominal	Recovery %	Acceptable Limits	Date Time	09/13/10 18 15
2 4 Dichlorophenylacetic acid	6 34 ug/L	4 72	134	(37% 151%)		

**Semi Volatiles PCB****SW846 3510C/8082A PCB Liquids As Received**

Aroclor 1016	U	ND	0 0336	0 101	ug/L	I	YSI 09/16/10 0701 1024439 13
Aroclor 1221	U	ND	0 0336	0 101	ug/L	I	
Aroclor 1232	U	ND	0 0336	0 101	ug/L	I	

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Project LUI-02 Mixed Waste HSWA

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Client Sample ID		F039 MW3A MID		Project		CARL EUI 02	
Sample ID		260018001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	Analysis Date Time Batch Method
<b>Semi Volatiles PCB</b>							
<i>SW846 3510C/8082A PCB Liquids As Received</i>							
Aroclor 1242		1 10	0 0336	0 101	ug/L	1	
Aroclor 1248	U	ND	0 0336	0 101	ug/L	1	
Aroclor 1254		1 10	0 0336	0 101	ug/L	1	
Aroclor 1260		0 390	0 0336	0 101	ug/L	1	YSI 09/16/10 0701 1024439 14
<b>Surrogate/Tracer recovery</b>		<b>Result</b>	<b>Nominal</b>	<b>Recovery%</b>	<b>Acceptable Limits</b>	<b>Date Time</b>	<b>09/16/10 07 01</b>
4cmx		0 129 ug/L	0 202	63 9	(30% 111%)		
<b>Surrogate/Tracer recovery</b>		<b>Result</b>	<b>Nominal</b>	<b>Recovery%</b>	<b>Acceptable Limits</b>	<b>Date Time</b>	<b>09/16/10 07 01</b>
Decachlorobiphenyl		0 104 ug/L	0 202	51 5	(30% 124%)		
<b>Semi Volatiles Pesticide</b>							
<i>SW846 3550C/8081B Liquid As Received</i>							
2 4 DDD	U	ND	0 0446	0 179	ug/L	10	JXM 09/08/10 2153 1021676 15
2 4 DDE	U	ND	0 0536	0 179	ug/L	10	
2 4 DDT	U	ND	0 0446	0 179	ug/L	10	
4 4 DDD	U	ND	0 0893	0 357	ug/L	10	
4 4 DDE	U	ND	0 0446	0 357	ug/L	10	
4 4 DDT	U	ND	0 0893	0 357	ug/L	10	
Aldrin	U	ND	0 0446	0 179	ug/L	10	
Chlordane (tech )	U	ND	0 683	2 23	ug/L	10	
Dieldrin	U	ND	0 0893	0 357	ug/L	10	
Endosulfan I	U	ND	0 0446	0 179	ug/L	10	
Endosulfan II	U	ND	0 0893	0 357	ug/L	10	
Endosulfan sulfate	U	ND	0 0893	0 357	ug/L	10	
Endrin	U	ND	0 0893	0 357	ug/L	10	
Endrin aldehyde	U	ND	0 0446	0 357	ug/L	10	
Heptachlor	U	ND	0 0446	0 179	ug/L	10	
Heptachlor epoxide	U	ND	0 0446	0 179	ug/L	10	
Methoxychlor	U	ND	0 446	1 79	ug/L	10	
Toxaphene	U	ND	1 34	4 46	ug/L	10	
alpha BHC	U	ND	0 0446	0 179	ug/L	10	
beta BHC	U	ND	0 0536	0 179	ug/L	10	
delta BHC	U	ND	0 0446	0 179	ug/L	10	
gamma BHC (Lindane)	U	ND	0 0446	0 179	ug/L	10	
<b>Surrogate/Tracer recovery</b>		<b>Result</b>	<b>Nominal</b>	<b>Recovery%</b>	<b>Acceptable Limits</b>	<b>Date Time</b>	<b>09/08/10 21 53</b>
Decachlorobiphenyl		0 614 ug/L	0 893	68 8	(30% 124%)		
4cmx		0 773 ug/L	0 893	86 5	(30% 111%)		
<b>Spectrometric Analysis</b>							
<i>EPA 376 2 Sulfide Liquid As Received</i>							
Total Sulfide	U	ND	0 150	0 500	mg/L	5	TXTI 09/03/10 1233 1021498 16

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Client Sample ID		F039 MW3A MID		Project		CARE EUI 02	
Sample ID		260018001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
<b>Volatile Organics</b>							
<i>8260B Appendix IX Volatiles As Received</i>							
1 1 1 2 Tetrachloroethane	U	ND	0 300	1 00	ug/L	1	JEB 09/14/10 2041 1024141 17
1 1 1 Trichloroethane	U	ND	0 325	1 00	ug/L	1	
1 1 2 2 Tetrachloroethane	U	ND	0 250	1 00	ug/L	1	
1 1 2 Trichloroethane	U	ND	0 250	1 00	ug/L	1	
1 1 Dichloroethane	U	1 13	0 300	1 00	ug/L	1	
1 1 Dichloroethylene	U	ND	0 300	1 00	ug/L	1	
1 2 3 Trichloropropane	U	ND	0 300	1 00	ug/L	1	
1 2 Dibromo 3 chloropropane	U	ND	0 300	1 00	ug/L	1	
1 2 Dibromoethane	U	ND	0 250	1 00	ug/L	1	
1 2 Dichloroethane	U	ND	0 250	1 00	ug/L	1	
1 2 Dichloroethylene (total)	U	ND	0 300	1 00	ug/L	1	
1 2 Dichloropropane	U	ND	0 250	1 00	ug/L	1	
1 4 Dioxane	U	ND	15 0	50 0	ug/L	1	
2 Butanone	U	ND	1 25	5 00	ug/L	1	
2 Chloro 1 3 butadiene	U	ND	0 300	1 00	ug/L	1	
2 Hexanone	U	ND	1 25	5 00	ug/L	1	
4 Methyl 2 pentanone	U	ND	1 25	5 00	ug/L	1	
Acetone	U	9 60	1 50	5 00	ug/L	1	
Acetonitrile	U	ND	6 25	25 0	ug/L	1	
Acrolein	U	ND	1 25	5 00	ug/L	1	
Acrylonitrile	U	ND	1 00	5 00	ug/L	1	
Allyl chloride	U	ND	1 50	5 00	ug/L	1	
Benzene	U	ND	0 300	1 00	ug/L	1	
Bromodichloromethane	U	ND	0 250	1 00	ug/L	1	
Bromoform	U	ND	0 250	1 00	ug/L	1	
Bromomethane	U	ND	0 300	1 00	ug/L	1	
Carbon disulfide	U	ND	1 25	5 00	ug/L	1	
Carbon tetrachloride	U	ND	0 300	1 00	ug/L	1	
Chlorobenzene	U	ND	0 250	1 00	ug/L	1	
Chloroethane	U	ND	0 300	1 00	ug/L	1	
Chloroform	U	ND	0 250	1 00	ug/L	1	
Chloromethane	U	ND	0 300	1 00	ug/L	1	
Cyclohexanone	U	ND	15 0	50 0	ug/L	1	
Dibromochloromethane	U	ND	0 300	1 00	ug/L	1	
Dibromomethane	U	ND	0 300	1 00	ug/L	1	
Dichlorodifluoromethane	U	ND	0 300	1 00	ug/L	1	
Ethyl acetate	U	ND	1 60	5 00	ug/L	1	
Ethyl ether	U	ND	0 300	1 00	ug/L	1	
Ethyl methacrylate	U	ND	1 00	5 00	ug/L	1	
Ethylbenzene	U	ND	0 250	1 00	ug/L	1	



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Parameter	Client Sample ID Sample ID	F039 MW3A MID 260018001	Project Client ID	CARE EUI 02 CARE004	DF	Analyst	Date	Time	Batch	Method
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### Volatile Organics

#### 8260B Appendix IX Volatiles As Received

Iodomethane	U	ND	1.25	5.00	ug/L	1
Isobutyl alcohol	U	ND	12.5	50.0	ug/L	1
Methacrylonitrile	U	ND	1.00	5.00	ug/L	1
Methyl methacrylate	U	ND	1.00	5.00	ug/L	1
Methylene chloride	U	ND	2.00	5.00	ug/L	1
Pentachloroethane	U	ND	1.00	5.00	ug/L	1
Propionitrile	U	ND	1.50	5.00	ug/L	1
Styrene	U	ND	0.250	1.00	ug/L	1
Tetrachloroethylene	U	ND	0.300	1.00	ug/L	1
Toluene	J	0.960	0.250	1.00	ug/L	1
Trichloroethylene	J	0.330	0.250	1.00	ug/L	1
Trichlorofluoromethane	U	ND	0.300	1.00	ug/L	1
Trichlorotrifluoroethane	U	ND	1.00	5.00	ug/L	1
Vinyl acetate	U	ND	1.50	5.00	ug/L	1
Vinyl chloride	U	ND	0.500	1.00	ug/L	1
Xylenes (total)	U	ND	0.300	1.00	ug/L	1
cis 1,3 Dichloropropylene	U	ND	0.250	1.00	ug/L	1
n Butyl alcohol	U	ND	15.0	50.0	ug/L	1
trans 1,2 Dichloroethylene	U	ND	0.300	1.00	ug/L	1
trans 1,3 Dichloropropylene	U	ND	0.250	1.00	ug/L	1
trans 1,4 Dichloro 2 butene	U	ND	1.00	5.00	ug/L	1

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/14/10 20:41
Toluene d8	53.9 ug/L	50.0	108	(80% 120%)		
Bromofluorobenzene	58.8 ug/L	50.0	118	(80% 120%)		
1,2 Dichloroethane d4	59.4 ug/L	50.0	119	(71% 130%)		

Tentatively Identified Compound (TIC)	CAS No	RT	Est. Concentration	Fit	Qual	Date Time	09/14/10 20:41
unknown		3.35	31.6 ug/L	0	J		

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3010A	ICP TRACE SW846 3010A	LYH1	09/03/10	1100	1021248
SW846 3510C	3510C Pesticide Prep H2O	JXC7	09/07/10	1442	1021675
SW846 3510C	3510C for PCB 8082A H2O	SXC2	09/15/10	1426	1024438
SW846 3510C	SW846 3510C Prep Semivolatiles 8270D	TXA1	09/07/10	1521	1021668
SW846 733 Prep	SW 733 Reactivity Releasable Cyanide	SXJ1	09/03/10	1400	1021411
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	09/13/10	1240	1023747
SW846 8151A	8151A Herbicide Prep	JXC7	09/07/10	1439	1021681

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	Client Sample ID	FO39 MW3A LOWER			Project	CARE EUI 02					
	Sample ID	260015001			Client ID	CARE004					
	Matrix	Misc Liquid									
	Collect Date	31 AUG 10 10 40									
	Receive Date	02 SEP 10									
	Collector	Client									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Alcohols											
SW846 8015C Alcohols Liquid As Received											
Methanol	U	ND	600	2000	ug/L	1	KXR2	09/10/10	2020	1022734	1
Electrode Analysis											
SW9040C pH As Received											
pH at Temp 18 7C	H	7 41			SU	1	LXA1	09/14/10	1439	1024246	2
Flow Injection Analysis											
SW 7 3 3 Reactivity Releasable As Received											
Reactive Releasable Cyanide	<	250000		250000	ug/L	1	SDS	09/07/10	1043	1021412	3
SW846 9012B Cyanide Amenable As Received											
SW9012B Cyanide Total As Received											
Cyanide Total		12 7	1 70	5 00	ug/L	1	SDS	09/08/10	1230	1021414	5
SW846 9012B Cyanide Amenable See Parent Products											
Cyanide Amenable to CL	U	ND	8 50	25 0	ug/L	1	SDS	09/09/10	1154	1021419	6
Hazardous Waste											
SW1020B Setajlash Flash Point 140 As Received											
Setajlash 140		>140	75 0	75 0	Fahrenheit	1	AXS5	09/15/10	1406	1024642	7
Ion Chromatography											
EPA300 0 Fluoride in Liquid As Received											
Fluoride	U	ND	16 5	50 0	mg/L	500	VHI	09/07/10	1756	1021244	8
Mercury Analysis CVAA											
7470 Cold Vapor Hg Liquid As Received											
Mercury	U	ND	6 60	20 0	ug/L	1	JXL1	09/14/10	0651	1023748	9
Metals Analysis ICP											
SW846 3010A/6010C Liquid Total Metals As Received											
Antimony	U	ND	30 0	100	ug/L	1	JWJ	09/10/10	0712	1021249	10
Arsenic	J	148	50 0	300	ug/L	1					
Barium		56 5	10 0	50 0	ug/L	1					
Beryllium	U	ND	10 0	50 0	ug/L	1					
Cadmium	J	15 0	10 0	50 0	ug/L	1					
Chromium	J	34 7	10 0	50 0	ug/L	1					
Lead		1070	33 0	100	ug/L	1					
Nickel		3350	15 0	50 0	ug/L	1					
Selenium	U	ND	50 0	300	ug/L	1					
Silver	U	ND	10 0	50 0	ug/L	1					
Thallium	J	124	50 0	200	ug/L	1					

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Client Sample ID		FO39 MW3A LOWER		Project		CARE EUI 02	
Sample ID		260015001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
<b>Metals Analysis ICP</b>							
<i>SW846 3010A/6010C Liquid Total Metals As Received</i>							
Zinc		58200	33 0	100	ug/L	1	
<b>Semi Volatile GC/MS</b>							
<i>HSWA Total SVOA Liquid As Received</i>							
1 2 4 5 Tetrachlorobenzene	U	ND	3 00	10 0	ug/L	1	AGSI 09/07/10 1919 1021671 11
1 2 4 Trichlorobenzene	U	ND	2 00	10 0	ug/L	1	
1 2 Dichlorobenzene	U	ND	2 00	10 0	ug/L	1	
1 2 Diphenylhydrazine	U	ND	2 00	10 0	ug/L	1	
1 3 5 Trinitrobenzene	U	ND	3 00	10 0	ug/L	1	
1 3 Dichlorobenzene	U	ND	2 00	10 0	ug/L	1	
1 4 Dichlorobenzene	U	ND	2 00	10 0	ug/L	1	
1 4 Dinitrobenzene	U	ND	5 00	50 0	ug/L	1	
1 4 Naphthoquinone	U	ND	3 00	10 0	ug/L	1	
1 Naphthylamine	U	ND	3 00	10 0	ug/L	1	
2 3 4 6 Tetrachlorophenol	U	ND	2 00	10 0	ug/L	1	
2 4 5 Tnchlorophenol	U	ND	2 00	10 0	ug/L	1	
2 4 6 Tnchlorophenol	U	ND	2 00	10 0	ug/L	1	
2 4 Dichlorophenol	U	ND	2 00	10 0	ug/L	1	
2 4 Dimethylphenol	U	ND	2 00	10 0	ug/L	1	
2 4 Dnitrophenol	U	ND	5 00	20 0	ug/L	1	
2 4 Dnitrotoluene	U	ND	2 00	10 0	ug/L	1	
2 6 Dichlorophenol	U	ND	2 00	10 0	ug/L	1	
2 6 Dnitrotoluene	U	ND	2 00	10 0	ug/L	1	
2 Acetylaminofluorene	U	ND	3 00	10 0	ug/L	1	
2 Chloronaphthalene	U	ND	0 300	1 00	ug/L	1	
2 Chlorophenol	U	ND	2 00	10 0	ug/L	1	
2 Methyl-4 6 dnitrophenol	U	ND	3 00	10 0	ug/L	1	
2 Methylnaphthalene	U	ND	0 300	1 00	ug/L	1	
2 Naphthylamine	U	ND	3 00	10 0	ug/L	1	
2 Nitrophenol	U	ND	2 00	10 0	ug/L	1	
2 Picoline	U	ND	3 00	10 0	ug/L	1	
3 3 Dichlorobenzidine	U	ND	2 00	10 0	ug/L	1	
3 3 Dimethylbenzidine	U	ND	3 30	10 0	ug/L	1	
3 Methylcholanthrene	U	ND	2 00	10 0	ug/L	1	
4 Aminobiphenyl	U	ND	3 00	10 0	ug/L	1	
4 Bromophenylphenylether	U	ND	2 00	10 0	ug/L	1	
4 Chloro 3 methylphenol	U	ND	2 00	10 0	ug/L	1	
4 Chloroaniline	U	ND	2 00	10 0	ug/L	1	
4 Chlorophenylphenylether	U	ND	2 00	10 0	ug/L	1	
4 Nitrophenol	U	ND	2 00	10 0	ug/L	1	
4 Nitroquinoline 1 oxide	U	ND	3 00	10 0	ug/L	1	

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Client Sample ID		FO39 MW3A LOWER		Project		CARE EUI 02	
Sample ID		260015001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
Semi Volatile GC/MS							
HSWA Total SVOA Liquid As Received							
5 Nitro o toluidine	U	ND	3 00	10 0	ug/L	1	
7 12	U	ND	3 00	10 0	ug/L	1	
Dimethylbenz(a)anthracene							
Acenaphthene	U	ND	0 310	1 00	ug/L	1	
Acenaphthylene	U	ND	0 200	1 00	ug/L	1	
Acetophenone	U	ND	2 00	10 0	ug/L	1	
Aniline	U	ND	2 50	10 0	ug/L	1	
Anthracene	U	ND	0 200	1 00	ug/L	1	
Aramite	U	ND	3 00	10 0	ug/L	1	
Benzo(a)anthracene	U	ND	0 200	1 00	ug/L	1	
Benzo(a)pyrene	J	0 310	0 200	1 00	ug/L	1	
Benzo(b)fluoranthene	J	0 412	0 200	1 00	ug/L	1	
Benzo(ghi)perylene	U	ND	0 200	1 00	ug/L	1	
Benzo(k)fluoranthene	J	0 331	0 200	1 00	ug/L	1	
Benzyl alcohol	U	ND	2 00	10 0	ug/L	1	
Butylbenzylphthalate	U	ND	2 00	10 0	ug/L	1	
Chlorobenzilate	U	ND	3 00	10 0	ug/L	1	
Chrysene	J	0 582	0 200	1 00	ug/L	1	
D1 n butylphthalate	U	ND	2 00	10 0	ug/L	1	
D1 n octylphthalate	U	ND	3 00	10 0	ug/L	1	
Diallate	U	ND	3 00	10 0	ug/L	1	
Dibenzo(a e)pyrene	U	ND	3 00	10 0	ug/L	1	
Dibenzo(a h)anthracene	U	ND	0 200	1 00	ug/L	1	
Dibenzofuran	U	ND	2 00	10 0	ug/L	1	
Diethylphthalate	U	ND	2 00	10 0	ug/L	1	
Dimethoate	U	ND	2 00	10 0	ug/L	1	
Dimethylphthalate	U	ND	2 00	10 0	ug/L	1	
Diphenylamine	U	ND	3 00	10 0	ug/L	1	
Disulfoton	U	ND	2 00	10 0	ug/L	1	
Ethyl Methanesulfonate	U	ND	2 00	10 0	ug/L	1	
Famphur	U	ND	3 00	10 0	ug/L	1	
Fluoranthene	J	0 468	0 200	1 00	ug/L	1	
Fluorene	U	ND	0 200	1 00	ug/L	1	
Hexachlorobenzene	U	ND	2 00	10 0	ug/L	1	
Hexachlorobutadiene	U	ND	2 00	10 0	ug/L	1	
Hexachlorocyclopentadiene	U	ND	3 00	10 0	ug/L	1	
Hexachloroethane	U	ND	2 00	10 0	ug/L	1	
Hexachloropropene	U	ND	3 00	10 0	ug/L	1	
Indeno(1 2 3 cd)pyrene	U	ND	0 200	1 00	ug/L	1	
Isodrin	U	ND	3 00	10 0	ug/L	1	
Isophorone	U	ND	3 00	10 0	ug/L	1	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 (843) 556-8171 www.gel.com

## Certificate of Analysis

Company EnergySolutions LLC  
Address 423 West 300 South  
Suite 200  
Salt Lake City Utah 84101  
Contact Mr. Allan Enchsen  
Project EUI-02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		FO39 MW3A LOWER		Project		CARE EUI 02	
Sample ID		260015001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
Semi Volatile-GC/MS							
HSWA Total SVOA Liquid As Received							
Isosafrole	U	ND	2.00	10.0	ug/L	1	
Kepone	U	ND	3.00	10.0	ug/L	1	
Methapyrilene	U	ND	3.00	10.0	ug/L	1	
Methyl methanesulfonate	U	ND	2.00	10.0	ug/L	1	
Methyl parathion	U	ND	2.00	10.0	ug/L	1	
N Methyl N nitrosomethylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosodimethylamine	U	ND	3.00	10.0	ug/L	1	
N Nitrosodiethylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosodipropylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosomethylethylamine	U	ND	2.00	10.0	ug/L	1	
N Nitrosomorpholine	U	ND	2.00	10.0	ug/L	1	
N Nitrosopiperidine	U	ND	2.00	10.0	ug/L	1	
N Nitrosopyrrolidine	U	ND	2.00	10.0	ug/L	1	
Naphthalene	U	ND	0.300	1.00	ug/L	1	
Nitrobenzene	U	ND	3.00	10.0	ug/L	1	
Parathion	U	ND	3.00	10.0	ug/L	1	
Pentachlorobenzene	U	ND	3.00	10.0	ug/L	1	
Pentachloroethane	U	ND	3.00	10.0	ug/L	1	
Pentachloronitrobenzene	U	ND	2.00	10.0	ug/L	1	
Pentachlorophenol	U	ND	2.00	10.0	ug/L	1	
Phenacetin	U	ND	2.00	10.0	ug/L	1	
Phenanthrene	J	0.498	0.200	1.00	ug/L	1	
Phenol	U	ND	1.00	10.0	ug/L	1	
Phorate	U	ND	2.00	10.0	ug/L	1	
Pronamide	U	ND	3.00	10.0	ug/L	1	
Pyrene	U	ND	0.300	1.00	ug/L	1	
Pyridine	U	ND	3.00	10.0	ug/L	1	
Safrole	U	ND	2.00	10.0	ug/L	1	
Sulfotep	U	ND	2.00	10.0	ug/L	1	
Thionazin	U	ND	2.00	10.0	ug/L	1	
Ternethylphosphorothioate	U	ND	2.00	10.0	ug/L	1	
Tetraa	U	ND	3.00	10.0	ug/L	1	
Dimethylphenethylamine							
bis(2	U	ND	3.00	10.0	ug/L	1	
Chloroethoxymethane							
bis(2 Chloroethyl) ether	U	ND	2.00	10.0	ug/L	1	
bis(2 Chloroisopropyl) ether	U	ND	2.00	10.0	ug/L	1	
bis(2 Ethylhexyl)phthalate	U	ND	2.00	10.0	ug/L	1	
m p Cresols	U	ND	3.00	10.0	ug/L	1	
m Dinitrobenzene	U	ND	2.00	10.0	ug/L	1	

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Contact Mr Allan Erichsen  
Project EUJ-02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		FO39 MW3A LOWER		Project		CARE EUJ 02	
Sample ID		260015001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	Dh	AnalystDate Time Batch Method
<b>Semi Volatile-GC/MS</b>							
<i>HSWA Total SVOA Liquid "As Received"</i>							
m Nitroaniline	U	ND	2 00	10 0	ug/L	1	
o Cresol	U	ND	2 00	10 0	ug/L	1	
o Nitroaniline	U	ND	2 00	10 0	ug/L	1	
o Toluidine	U	ND	3 00	10 0	ug/L	1	
p	U	ND	3 00	10 0	ug/L	1	
(Dimethylamino)azobenzene							
p Nitroaniline	U	ND	3 00	10 0	ug/L	1	
p Phenylenediamine	U	ND	2 00	20 0	ug/L	1	
<b>Surrogate/Tracer recovery</b>	<b>Result</b>	<b>Nominal</b>	<b>Recovery%</b>	<b>Acceptable Limits</b>		<b>Date Time</b>	<b>09/07/10 19 19</b>
2 4 6 Tribromophenol	115 ug/L	100	115	(21% 136%)			
Phenol-d5	14 4 ug/L	100	14 4	(10% 61%)			
2 Fluorobiphenyl	37 5 ug/L	50 0	74 9	(32% 110%)			
2 Fluorophenol	41 9 ug/L	100	41 9	(7% 88%)			
p Terphenyl-d14	46 6 ug/L	50 0	93 3	(44% 140%)			
Nitrobenzene d5	47 1 ug/L	50 0	94 2	(33% 115%)			
<b>Tentatively Identified Compound (TIC)</b>	<b>CAS No</b>	<b>RT</b>	<b>Est Concentration</b>	<b>Fit</b>	<b>Qual</b>	<b>Date Time</b>	<b>09/07/10 19 19</b>
Unknown		1 82	5 97 ug/L		J		
2 Butanone 3 methyl	563 80-4	1 92	50 4 ug/L	86	NJ		
Unknown		1 99	5 17 ug/L		J		
Cyclopentene 1 2 3 3 4 pentamethyl	197390 29 7	3 55	6 66 ug/L	93	NJ		
Unknown		4 14	6 31 ug/L		J		
Urea tetramethyl	632 22-4	4 23	23 4 ug/L	91	NJ		
Unknown		7 99	8 89 ug/L		J		
Benzoic acid 3 5 bis(1 1 dimethylethyl)	1421-49-4	9 53	6 41 ug/L	86	NJ		
Unknown		9 74	25 9 ug/L		J		
7 9 Di tert butyl 1 oxaspiro(4 5)deca 6	82304 66 3	9 78	4 47 ug/L	99	NJ		
Unknown		9 82	21 7 ug/L		J		
Unknown		9 84	15 5 ug/L		J		
Tritetracontane	7098 21 7	14 08	9 41 ug/L	87	NJ		
Heptacosane 1 chloro	62016 79 9	15 26	7 19 ug/L	87	NJ		
<b>Semi Volatiles HERB</b>							
<i>8151A Herbicide H2O% As Received</i>							
2 4 5 T	U	ND	0 079	0 238	ug/L	1	TXK2 09/13/10 1750 1021682 12
2 4 5 TP	U	ND	0 079	0 238	ug/L	1	
2 4 D	U	ND	0 079	0 238	ug/L	1	
Dimoseb	U	ND	0 079	0 238	ug/L	1	

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Project EUI 02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		FO39 MW3A LOWER		Project		CARE EUI-02	
Sample ID		260015001		Client ID		CARE004	
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst/Date Time Batch Method
<b>Semi-Volatiles-HERB</b>							
<i>8151A Herbicide H2O% As Received</i>							
<i>Surrogate/Tracer recovery</i>		<i>Result</i>	<i>Nominal</i>	<i>Recovery%</i>	<i>Acceptable Limits</i>		<i>Date Time</i> 09/13/10 17 50
2 4 Dichlorophenylacetic acid		4 76 ug/L	4 76	100	(37% 151%)		
<b>Semi Volatiles-PCB</b>							
<i>SW846 3510C/8082A PCB Liquids As Received</i>							
Aroclor 1016	U	ND	0 0333	0 100	ug/L	1 YSI	09/16/10 0649 1024439 13
Aroclor 1221	U	ND	0 0333	0 100	ug/L	1	
Aroclor 1232	U	ND	0 0333	0 100	ug/L	1	
Aroclor 1242		0 590	0 0333	0 100	ug/L	1	
Aroclor 1248	U	ND	0 0333	0 100	ug/L	1	
Aroclor 1260		0 160	0 0333	0 100	ug/L	1	
Aroclor 1254		0 500	0 0333	0 100	ug/L	1 YSI	09/16/10 0649 1024439 14
<i>Surrogate/Tracer recovery</i>		<i>Result</i>	<i>Nominal</i>	<i>Recovery%</i>	<i>Acceptable Limits</i>		<i>Date Time</i> 09/16/10 06 49
4cmx		0 138 ug/L	0 200	69 0	(30% 111%)		
<i>Surrogate/Tracer recovery</i>		<i>Result</i>	<i>Nominal</i>	<i>Recovery%</i>	<i>Acceptable Limits</i>		<i>Date Time</i> 09/16/10 06 49
Decachlorobiphenyl		0 105 ug/L	0 200	52 7	(30% 124%)		
<b>Semi Volatiles Pesticide</b>							
<i>SW846 3550C/8081B Liquid As Received</i>							
2 4 DDD	U	ND	0 0472	0 189	ug/L	10 JXM	09/08/10 2136 1021676 15
2 4 DDE	U	ND	0 0566	0 189	ug/L	10	
2 4 DDT	U	ND	0 0472	0 189	ug/L	10	
4 4 DDD	U	ND	0 0943	0 377	ug/L	10	
4 4 DDE	U	ND	0 0472	0 377	ug/L	10	
4 4 DDT	U	ND	0 0943	0 377	ug/L	10	
Aldrin	U	ND	0 0472	0 189	ug/L	10	
Chlordane (tech )	U	ND	0 722	2 36	ug/L	10	
Dieldrin	U	ND	0 0943	0 377	ug/L	10	
Endosulfan I	U	ND	0 0472	0 189	ug/L	10	
Endosulfan II	U	ND	0 0943	0 377	ug/L	10	
Endosulfan sulfate	U	ND	0 0943	0 377	ug/L	10	
Endrin	U	ND	0 0943	0 377	ug/L	10	
Endrin aldehyde	U	ND	0 0472	0 377	ug/L	10	
Heptachlor	U	ND	0 0472	0 189	ug/L	10	
Heptachlor epoxide	U	ND	0 0472	0 189	ug/L	10	
Methoxychlor	U	ND	0 472	1 89	ug/L	10	
Toxaphene	U	ND	1 42	4 72	ug/L	10	
alpha BHC	U	ND	0 0472	0 189	ug/L	10	
beta BHC	U	ND	0 0566	0 189	ug/L	10	
delta BHC	U	ND	0 0472	0 189	ug/L	10	
gamma BHC (Lindane)	U	ND	0 0472	0 189	ug/L	10	

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Project EUI-02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		FO39 MW3A LOWER		Project		CARE EUI 02	
Sample ID		260015001		Client ID		CARC004	
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate Time Batch Method
Semi Volatiles-Pesticide							
SW846 3550C/8081B Liquid As Received							
Surrogate/Tracer recovery		Result	Nominal	Recovery%	Acceptable Limits	Date Time	09/08/10 21 36
Decachlorobiphenyl		0 421 ug/L	0 943	44 6	(30% 124%)		
4cmx		0 929 ug/L	0 943	98 5	(30% 111%)		
Spectrometric Analysis							
EPA 376 2 Sulfide Liquid As Received							
Total Sulfide	U	ND	0 150	0 500	mg/L	5 TXT1	09/03/10 1225 1021498 16
Volatile Organics							
EPA 8260B Appendix IX volatiles As Received							
1 1 1 2 Tetrachloroethane	U	ND	0 300	1 00	ug/L	1 JLB	09/14/10 2018 1024141 17
1 1 1 Trichloroethane	U	ND	0 325	1 00	ug/L	1	
1 1 2 2 Tetrachloroethane	U	ND	0 250	1 00	ug/L	1	
1 1 2 Trichloroethane	U	ND	0 250	1 00	ug/L	1	
1 1 Dichloroethane	J	0 720	0 300	1 00	ug/L	1	
1 1 Dichloroethylene	U	ND	0 300	1 00	ug/L	1	
1 2 3 Trichloropropane	U	ND	0 300	1 00	ug/L	1	
1 2 Dibromo 3 chloropropane	U	ND	0 300	1 00	ug/L	1	
1 2 Dibromoethane	U	ND	0 250	1 00	ug/L	1	
1 2 Dichloroethane	U	ND	0 250	1 00	ug/L	1	
1 2 Dichloroethylene (total)	U	ND	0 300	1 00	ug/L	1	
1 2 Dichloropropane	U	ND	0 250	1 00	ug/L	1	
1 4 Dioxane	U	ND	15 0	50 0	ug/L	1	
2 Butanone	J	1 26	1 25	5 00	ug/L	1	
2 Chloro 1 3 butadiene	U	ND	0 300	1 00	ug/L	1	
2 Hexanone	U	ND	1 25	5 00	ug/L	1	
4 Methyl 2 pentanone	U	ND	1 25	5 00	ug/L	1	
Acetone	J	2 03	1 50	5 00	ug/L	1	
Acetonitrile	U	ND	6 25	25 0	ug/L	1	
Acrolein	U	ND	1 25	5 00	ug/L	1	
Acrylonitrile	U	ND	1 00	5 00	ug/L	1	
Allyl chloride	U	ND	1 50	5 00	ug/L	1	
Benzene	U	ND	0 300	1 00	ug/L	1	
Bromodichloromethane	U	ND	0 250	1 00	ug/L	1	
Bromoform	U	ND	0 250	1 00	ug/L	1	
Bromomethane	U	ND	0 300	1 00	ug/L	1	
Carbon disulfide	U	ND	1 25	5 00	ug/L	1	
Carbon tetrachloride	U	ND	0 300	1 00	ug/L	1	
Chlorobenzene	U	ND	0 250	1 00	ug/L	1	
Chloroethane	U	ND	0 300	1 00	ug/L	1	
Chloroform	U	ND	0 250	1 00	ug/L	1	



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Contact Mr. Allan Erichsen  
Project EUI 02 Mixed Waste HSWA

Report Date September 21 2010

Client Sample ID		FO39 MW3A LOWER			Project		CARE EUI 02				
Sample ID		260015001			Client ID		CARE004				
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics											
8260B Appendix IX Volatiles As Received											
Chloromethane	U	ND	0.300	1.00	ug/L	1					
Cyclohexanone	U	ND	15.0	50.0	ug/L	1					
Dibromochloromethane	U	ND	0.300	1.00	ug/L	1					
Dibromomethane	U	ND	0.300	1.00	ug/L	1					
Dichlorodifluoromethane	U	ND	0.300	1.00	ug/L	1					
Ethyl acetate	U	ND	1.60	5.00	ug/L	1					
Ethyl ether	U	ND	0.300	1.00	ug/L	1					
Ethyl methacrylate	U	ND	1.00	5.00	ug/L	1					
Ethylbenzene	J	0.390	0.250	1.00	ug/L	1					
Iodomethane	U	ND	1.25	5.00	ug/L	1					
Isobutyl alcohol	U	ND	12.5	50.0	ug/L	1					
Methacrylonitrile	U	ND	1.00	5.00	ug/L	1					
Methyl methacrylate	U	ND	1.00	5.00	ug/L	1					
Methylene chloride	U	ND	2.00	5.00	ug/L	1					
Pentachloroethane	U	ND	1.00	5.00	ug/L	1					
Propionitrile	U	ND	1.50	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.300	1.00	ug/L	1					
Toluene	J	0.750	0.250	1.00	ug/L	1					
Trichloroethylene	U	ND	0.250	1.00	ug/L	1					
Trichlorofluoromethane	U	ND	0.300	1.00	ug/L	1					
Trichlorotrifluoroethane	U	ND	1.00	5.00	ug/L	1					
Vinyl acetate	U	ND	1.50	5.00	ug/L	1					
Vinyl chloride	U	ND	0.500	1.00	ug/L	1					
Xylenes (total)		1.68	0.300	1.00	ug/L	1					
cis 1,3-Dichloropropylene	U	ND	0.250	1.00	ug/L	1					
n-Butyl alcohol	U	ND	15.0	50.0	ug/L	1					
trans 1,2-Dichloroethylene	U	ND	0.300	1.00	ug/L	1					
trans 1,3-Dichloropropylene	U	ND	0.250	1.00	ug/L	1					
trans 1,4-Dichloro-2-butene	U	ND	1.00	5.00	ug/L	1					
Surrogate/Tracer recovery		Result	Nominal	Recovery %	Acceptable Limits		Date	Time	09/14/10 20:18		
Toluene d8		53.3 ug/L	50.0	107	(80% 120%)						
1,2-Dichloroethane-d4		54.4 ug/L	50.0	109	(71% 130%)						
Bromofluorobenzene		55.4 ug/L	50.0	111	(80% 120%)						
Tentatively Identified Compound (TIC)		CAS No	RT	Est. Concentration	Fit	Qual	Date	Time	09/14/10 20:18		
unknown			3.35	28.7 ug/L	0	J					





**COPY**

September 10, 2010

QA/10-068

Mr Scott T Anderson  
Executive Secretary  
Utah Solid and Hazardous Waste Control Board  
195 N 1950 W  
P O Box 144880  
Salt Lake City, UT 84114-4880

**HAND DELIVERED**  
*2010 03097*  
**SEP 13 2010**  
**UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE**

Subject Notification of PCB Waste Shipments Accepted with Discrepancies not Corrected  
Within 15 days

Mr Anderson

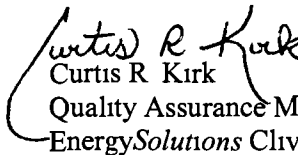
In accordance Attachment II-1-10 of State Issued Part B Permit UTD982598898,  
EnergySolutions hereby provides notification of PCB waste shipments accepted with  
discrepancies not corrected within 15 days of receiving the waste

On August 25, 2010, four waste shipments from generator 9006-34 (Shipment Numbers PR07640  
- PR07643) arrived at the Clive facility During weight verification operations, it was discovered  
that the manifested weights varied from actual weights by greater than 10% Upon discovery,  
EnergySolutions implemented Condition Report CRSD10-034 to track the deficiency The  
generator was contacted and provided authorization to correct the manifests, however, the  
corrections were not made prior to the 15 day time limit Please note that as of September 10,  
2010, all required corrections have been made to the affected manifests

As required, copies of the affected manifests are attached to this correspondence


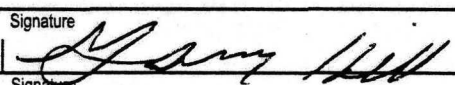

If you have any questions regarding this issue, please contact me at (801) 649-2096 or (801) 647-  
1078

Sincerely,

  
Curtis R. Kirk  
Quality Assurance Manager  
EnergySolutions Clive Facility

Cc ~~Ofis Willoughby, DSHW~~  
Cheryl Turcotte, USEPA  
Francis Tran, USEPA  
File CRSD10-034

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance  
with a system designed to assure that qualified personnel properly gather and evaluate the information submitted Based on my  
inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information the  
information submitted is to the best of my knowledge and belief true accurate and complete I am aware that there are significant  
penalties for submitting false information including the possibility of fine and imprisonment for knowing violations

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NM0880010515	2. Page 1 of 1	3. Emergency Response Phone (505) 667-5211	4. Manifest Tracking Number 000367411 JJK		
5. Generator's Name and Mailing Address LANS, LLC for US DOE P.O. Box 1663, MS J598, Tamar Amin Los Alamos, NM 87545 Generator's Phone: (505) 665-8528		Generator's Site Address (if different than mailing address) LANS, LLC FOR US DOE RONALD DE SOTEL, TA-29, MS-M998 LOS ALAMOS, NM 87545					
6. Transporter 1 Company Name M.P. ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Number CAT000624247					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address Energy Solutions LLC Interstate 80, Exit 45 Clive, UT 84029 Facility's Phone: (435) 884-0155		U.S. EPA ID Number UTD982598898					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
1	1. RC. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, II, (POLYCHLORINATED BIPHENYLS)	1 DRUM		52	kg		
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information LINE #1 BRC #101 OSWT #:							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Tamar Amin		Signature 		Month Day Year 07/14/10			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name GARY HILL		Signature 		Month Day Year 08/20/10			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Justin Lee		Signature 		Month Day Year 8/27/10			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NM0940010515	2. Page 1 of 1	3. Emergency Response Phone 505-687-6211	4. Manifest Tracking Number 000367410 JJK	
5. Generator's Name and Mailing Address LANS, LLC FOR UT DOE P.O. Box 1868, MS M998, Tropic, NM Los Alamos, NM 87545 Generator's Phone: 505-687-6211		Generator's Site Address (if different than mailing address) LANS, LLC FOR UT DOE RONALD DE SOTEL, TA-29, MS-M998 LOS ALAMOS, NM 87545				
6. Transporter 1 Company Name M.P. ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Number CAT000624347				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address Energy Solutions LLC Interstate 80, Exit 49 Olive, UT 84029 Facility's Phone: 435-864-0139		U.S. EPA ID Number UTD902598898				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1	1.00, UN3455, POLYCHLORINATED BIPHENYLS, SOLID, 9, II., POLYCHLORINATED BIPHENYL	1	DRUM	117	kg	
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information INF 41 ENG 41.7 SDMT 41						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name TAMER AMIN		Signature 		Month Day Year 07/14/10		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name B.B.Rx Hill		Signature 		Month Day Year 08/20/10		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Justin Lee		Signature 		Month Day Year 08/27/10		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number	
		WNC890010515	1	(505) 667-6211	000367413 JJK	
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)				
LANS, LLC FOR US DOE P.O. Box 1660, MS 4098, Tanager Apts Los Alamos, NM 87545		LANS, LLC FOR US DOE RONALD DE SOTEL, TA-39, MS-M998 LOS ALAMOS, NM 87545				
Generator's Phone:						
6. Transporter 1 Company Name		U.S. EPA ID Number				
M.P. ENVIRONMENTAL SERVICES, INC.		CAT000624247				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address		U.S. EPA ID Number				
Energy Solutions LLC Interstate 80, Exit 10 Clive, UT 84009		UTD381589868				
Facility's Phone:						
(435) 864-0188						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
	1. PG. UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 77, II, (POLYCHLORINATED BIPHENYLS)	1	DRUM	159	kg	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information						
LANS, LLC FOR US DOE OSWP #:						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name		Signature		Month	Day	Year
TAMER ANDU				10	14	10
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name		Signature		Month	Day	Year
GARY HILL				08	20	10
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)		Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name		Signature		Month	Day	Year
Justin Lee				08	27	10



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number	
		W00390011515	1	505-667-6211	000367414 JJK	
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)				
LAWSON, LLC FOR US DOE 2111 90th Street, NE Los Alamos, NM 87545		LAWSON, LLC FOR US DOE RONALD RE BOTEL, 24-18, 10-0093 LOS ALAMOS, NM 87545				
Generator's Phone:						
6. Transporter 1 Company Name		U.S. EPA ID Number				
W.P. ENVIRONMENTAL SERVICES, INC.		DA1000624147				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address		U.S. EPA ID Number				
Energy Solutions LLC Interstate 30, Suite 40 Olive, UT 84029		UT0982592898				
Facility's Phone:						
1435 384-0163						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
	1. UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9. II, POLYCHLORINATED BIPHENYLS	1	DRUM - 20	100	KG	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information						
LINE #1 ERD #1171. EXP #:						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name		Signature			Month Day Year	
TAMER AMIN					07/14/10	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name		Signature			Month Day Year	
GARY HILL					08/20/10	
Transporter 2 Printed/Typed Name		Signature			Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name		Signature			Month Day Year	
Justin Lee					08/27/10	

Attachment 11





Sumps 10A and 10B Lower Soil Protective Layer.



Sump 3A Leachate Pipes.





Sump 9A Disposal.



Sump 9B Disposal.





Mixed Waste Operations Building.



Mixed Waste Operations Building.





Wind Dispersal Soil Sampling.



Searching for Drum in MWLC.





Recovered Drum from MWLC.

Attachment 12



## PRE / POST AUDIT ATTENDANCE ROSTER

Date September 27, 2010	Lead Auditor OTIS WILLOUGHBY
Audit UDSHW	Audit Type Annual

[illegible]